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UTILITY

PATENT APPLICATION
TRANSMITTALC883 U.S. PT
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For new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 17837-00003

First Named Inventor or Application Identifier Glenn Goggins and William
Marcial

Title SYSTEMS AND METHODS FOR CREDIT LINE MONITORING

Express Mail Label No. EL048588268US

JC882 U.S. PT
09/09/01
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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)2. Specification [Total Pages 28]
(Preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. Drawing(s) (35 USC 113) [Total Sheets 32]4. Oath or Declaration [Total Pages]a. Newly executed (original or copy)b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)

[Note Box 5 below]

i. DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

5. Incorporation by Reference (useable if Box 4b is checked)

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

6. Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

a. Computer Readable Copy

b. Paper Copy (identical to computer copy)

c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. Assignment Papers (cover sheet & document(s))

9. 37 CFR 3.73(b) Statement [when there is an assignee] Power of Attorney

10. English Translation Document (if applicable)

11. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

12. Preliminary Amendment

13. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

14. Small Entity Statement(s) (PTO/SB/09-12) Statement filed in prior application, Status still proper and desired

15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)

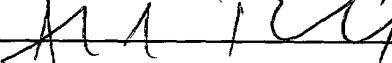
16. Other: Certificate of Express Mail; Declaration and Power of Attorney (submitted for inventor identification purposes only)

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17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

Continuation
Prior application information: Divisional
Examiner: Continuation-in-part (CIP)
Group/Art Unit: of prior application No.

18. CORRESPONDENCE ADDRESS

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17837-00003

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Express Mail mailing label number: EL048588268US

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I certify that the attached utility patent application of **GLENN GOGGINS and WILLIAM MARCIAL** for **SYSTEM AND METHODS FOR CREDIT LINE MONITORING**, including:

- Eighteen (18) pages of specification; nine (9) pages of claims; one (1) page of abstract
- Declaration and Power of Attorney (2 pgs)(submitted for inventor identification purposes only)
- Thirty-Two (32) sheets of drawings
- Patent Application Transmittal (1 pg)
- Fee Transmittal (1 pg, in duplicate)
- Certificate of Mailing Via Express Mail (1 pg)
- Return post card

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to the Assistant Commissioner for Patents, Box PATENT APPLICATION, Washington, D.C. 20231.


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SYSTEMS AND METHODS FOR CREDIT LINE MONITORING

BACKGROUND OF THE INVENTION

This invention relates generally to credit line monitoring and, more specifically, to credit line tracking and borrowing methods and systems.

A treasury operation of a multi-billion dollar corporation manages money for many different divisions within the corporation as well as for affiliates and other related entities. In connection with significant transactions and other operational needs, the treasury operation also secures and manages credit lines with commercial banks. At a given time, the corporation may have numerous credit lines with domestic as well international banks. Each credit line, if drawn by the company, may have its own variables such as interest rates, period, currency and so on. Additionally, for each credit line, the treasury operation maintains information regarding the borrowings, payments, conversion from or to foreign currency, and other relevant information.

Managing the complexities of these numerous credit lines is a challenging task. For example, simply managing payments for maintaining credit lines at numerous banks in many different jurisdictions and varying currencies in itself is a substantial undertaking. Ensuring that financial institutions from which such credit lines are secured are viable, by maintaining relevant credit rating information, also requires significant resources.

BRIEF SUMMARY OF THE INVENTION

The present invention facilitates efficient credit line monitoring which includes tracking borrowings as well as posting journal entries automatically for financial reporting.

In one embodiment, the present invention is a method for tracking bank credit lines and borrowing against credit lines using a Credit Line System (CLS) coupled to a centralized database. The method involves manually tracking credit ratings of a bank, requesting the bank to establish a line of credit, accessing a centralized database to obtain and maintain information regarding the line of credit, transmitting domestic and international wire information for cash movement to the

bank, and finally posting journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

5 In another aspect, the present invention is a system for computer-based credit line monitoring. In an exemplary embodiment, the system includes at least one server system, a client system configured with a browser, a centralized database coupled to the server system to implement, manage and monitor bank credit lines drawn and undrawn and the credit ratings including credit ratings, currencies, interest rates, borrowings against credit lines, cash payments and finally posting the related journal entries.

BRIEF DESCRIPTION OF THE DRAWINGS

10 Figure 1 is a simplified block diagram of a Credit Line System (CLS) for tracking bank credit lines and borrowings against credit lines;

15 Figure 2 is an expanded version block diagram of an exemplary embodiment of server architecture of CLS;

16 Figure 3 shows a configuration of a database within database server of server system shown in Figure 1;

Figure 4 is an exemplary embodiment of various modules as utilized in implementing CLS;

20 Figure 5 is an exemplary embodiment of activity process steps as implemented by CLS;

Figure 6 is an exemplary embodiment of some of the functionality of Credit Line Module;

Figure 7 is a continuation of the functionality of Credit Line Module;

25 Figure 8 is an exemplary embodiment of the functionality of Borrowing Module;

Figure 9 is an exemplary embodiment of the functionality of Journal Entry Module;

Figure 10 is an alternative embodiment of overall Credit Line Process Flow;

Figure 11 is an exemplary embodiment of a credit line detail report by bank;

5 Figure 12 is an exemplary embodiment of a credit line detailed report by expiration;

Figure 13 is an exemplary embodiment of a credit lines ranking report;

Figure 14 is an exemplary embodiment of a credit line report;

Figure 15 is an exemplary embodiment of a GECC ratings report;

10 Figure 16 is an exemplary embodiment of a credit line accrual report by bank name;

Figure 17 is an exemplary embodiment of a credit line accrual report by pay type;

Figure 18 is an exemplary embodiment of a credit line payment report.

Figure 19 is an exemplary report of a Gateway ACH report;

Figure 20 is an exemplary embodiment of a Gateway Wire report;

Figure 21 is an exemplary embodiment of a Borrowing Detailed Report By Due Date;

20 Figure 22 is an exemplary embodiment of a Borrowing Detailed Report By Expiration;

Figure 23 is an exemplary embodiment of a Borrowing Detailed Report By State/Country;

Figure 24 is an exemplary embodiment of a Borrowing Detailed Report By Unused Credit Lines;

25 Figure 25 is an exemplary embodiment of a Borrowing Detailed Report By Value Date;

Figure 26 is an exemplary embodiment of capacity available report by bank;

Figure 27 is a borrowings repayment report;

5 Figure 28 is an exemplary embodiment of a borrowings interest paid report by currency;

Figure 29 is an exemplary embodiment of a borrowings domestic ACH report;

Figure 30 is an exemplary embodiment of a borrowings domestic wire report;

10 Figure 31 is an exemplary embodiment of a borrowings interest accruals report in local currency; and

Figure 32 is an exemplary embodiment of a composite rate report.

DETAILED DESCRIPTION OF THE INVENTION

The present invention, in one aspect, is a computer-based method for credit line assessment.

15 Exemplary embodiments of systems and processes that facilitate integrated network-based electronic reporting and workflow process management related to credit line assessment are described below in detail. The systems and processes facilitate, for example, electronic submission of information using a client system, automated extraction of information, and windows-based assessment reporting.

20 The systems and processes are not limited to the specific embodiments described herein. In addition, components of each system and each process can be practiced independent and separate from other components and processes described herein. Each component and process also can be used in combination with other components and processes.

25 The application resides on an IIS Server with a SQL Server 7.0 database. In an exemplary embodiment, the application is web enabled and being run on a business entity's intranet. In yet another embodiment, the application is fully

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accessed by individuals having an authorized access outside the firewall of the business entity through the Internet. In a third exemplary embodiment, the application is being run in a windows NT environment. The application is flexible and designed to run in a various different environments without compromising any major functionality.

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Figure 1 is a simplified block diagram of a Credit Line System (CLS) 10 for tracking bank credit lines and borrowings. System 10 includes a server system 12 and a plurality of client systems 14 connected to server system 12. In one embodiment, client systems 14 are computers including a web browser, and server system 12 is accessible to client systems 14 via the Internet. Client systems 14 are interconnected to the Internet through many interfaces including a network, such as a local area network (LAN) or a wide area network (WAN), dial-in-connections, cable modems and special high-speed ISDN lines. In another embodiment, client systems 14 could be any device capable of interconnecting to the Internet including a web-based telephone or other web-based connectable equipment. A database server 16 is connected to a centralized database 20 containing product related information on a variety of products, as described below in greater detail, is stored on server system 12 and can be accessed by potential users at one of client systems 14 by logging onto server system 12 through one of client systems 14.

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In one embodiment, server system 12 is coupled to computers 14 via a WAN or LAN. A user may dial or directly log on to an intranet or the Internet to gain access. Each computer 14 includes an interface for communicating with server system 12. The interface allows a user to input data and to receive data relating to the request. A computer-based tool for credit line assessment, as described below in more detail, is stored in server system 12 and can be accessed by a user at server 12 or any one of computers 14.

20

Server system 12 is configured to receive a request to establish or expand an applicant's line of credit, to access the applicant's current credit exposure and to calculate the applicant's eligibility for establishing or expanding the line of credit. Current credit exposure includes any information relevant to an applicant's credit history, including, but not limited to, credit line and borrowing information. Server system 12 is further configured for reporting the applicant's eligibility for establishing or expanding the line of credit. The interface allows the user or applicant to input data relating to the request and to receive eligibility output. In one

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embodiment, the user or applicant is a bank, company, organization or an individual applicant.

Figure 2 is an expanded version block diagram of an exemplary embodiment of server architecture of a Credit Line System (CLS) 22. Components in system 22 identical to components of system 10 (shown in Figure 1) are identified in Figure 2 using the same reference numerals as used in Figure 1. System 22 includes a server system 12 and client system 14. Server system 12 includes a database server 16 and further includes an application server 24, a web server 26, a fax server 28, a directory server 30, and a mail server 32. A disk storage unit 34 is coupled to database server 16 and directory server 30. Servers 16, 24, 26, 28, 30, and 32 are coupled in a local area network (LAN) 36. In addition, a system administrator's workstation 38, a user or credit analyst's workstation 40, and a supervising officer's workstation 42 are coupled to LAN 36. Alternatively, workstations 38, 40, and 42 are coupled to LAN 36 via an Internet link or are connected through intranet.

Each workstation, 38, 40, and 42 is a personal computer including a web browser. Although the functions performed at the workstations typically are illustrated as being performed at respective workstations 38, 40, and 42, such functions can be performed at one of many personal computers coupled to LAN 36. Work stations 38, 40, and 42 are illustrated as being associated with separate functions only to facilitate an understanding of the different types of functions that can be performed by individuals having access to LAN 36.

In another embodiment, server system 12 is configured to be communicatively coupled to various banks 44 and to third parties, e.g., internal or external auditors 46 via an ISP Internet connection 48. The communication in the exemplary embodiment is illustrated as being performed via the Internet, however, any other wide area network (WAN) 50 type communication can be utilized in other embodiments, i.e., the systems and processes are not limited to being practiced via the Internet. In addition, and rather than a WAN, a local area network could be used in place of the WAN.

In the exemplary embodiment, each outside bank or a business entity 44 has a workstation 54. One of the client systems includes a senior manager's workstation 56 located at a remote location or located overseas. Work stations 54 and 56 are personal computers including a web browser. Also, work stations 54 and 56 are configured to communicate with server system 12. Furthermore, fax server 28

communicates with outside banks 44 and any of the remotely located client systems including a client system 56 via a telephone link. Fax server 28 is configured to communicate with other client systems 38, 40, and 42 as well.

5 Figure 3 shows a configuration of database 20 within database server 16 of server system 12 shown in Figure 1. Database 20 is coupled to several separate components within server system 12, which perform specific tasks.

10 Server system 12 includes a collection component 64 for collecting information from users into centralized database 20, a tracking component 66 for tracking information, a displaying component 68 to display information, a receiving component 70 to receive a specific query from client system 14, and an accessing component 72 to access centralized database 20. Receiving component 70 is programmed for receiving a specific query from one of a plurality of users. Server system 12 further includes a processing component 76 for searching and processing received queries against data storage device 34 containing a variety of information collected by collection component 64. An information fulfillment component 78, located in server system 12, downloads the requested information to the plurality of users in the order in which the requests were received by receiving component 70. Information fulfillment component 78 downloads the information after the information is retrieved from data storage device 34 by a retrieving component 80. Retrieving component 80 retrieves, downloads and sends information to client system 14 based on a query received from client system 14 regarding various alternatives.

15 20 Retrieving component 80 further includes a display component 84 configured to download information to be displayed on client system's graphical user interface and a printing component 88 configured to print information. Retrieving component 80 generates various reports requested by the user through client system 14 in a pre-determined format. System 10 is flexible to provide various alternative types of report and is not constrained to particular options set forth in any particular embodiment.

25 30 CLS 10 is a searchable database 20 built in SQL server, which is divided into three main sections that interconnect. The first section is a Bank Information Section 90. Every bank has a basic entry that lists the name of a bank, the contact person, location, areas of expertise, discount/other financial terms, business or location of the bank. The second section is a Credit Line Information Section 92. Credit lines obtained by the corporation are linked to the internal system

of each of the bank. Basic information is collected, such as a total credit line, when extended, what are the fees being paid for the credit line, interest rate on the credit line, and so on. CLS 10 generates different reports, such as total fees and related matters by business, location, practice area, etc. The third section of CLS, 5 Borrowings/Repayment Information Section 96, includes information on Borrowings/ Repayments. This section tracks information on repayment amount against the specific borrowing from each bank, date the payment was made, amount credited to interest as well as principal, if any and other related information. Bank Information 10 Section 90, Credit Line Information 92 and Borrowings/Repayment Information Section 96 are all integrated together to provide comprehensive information. Updating information within one section also automatically updates the relevant 15 information in other sections of the database to maintain integrity.

The architectures of system 10 as well as various components of system 10 are exemplary only. Other architectures are possible and can be utilized in connection with practicing the processes described below.

Figure 4 is an exemplary embodiment of various modules as utilized in implementing CLS 10. CLS 10 includes a Credit Line Module 150, a Borrowing Module 160 and a Journal Entry Module 170 of Credit Line System (CLS) 10. Credit Line Module 150, Borrowing Module 160 and Journal Entry Module 170 are integrated together to perform several comprehensive functions.

Figure 5 is an exemplary embodiment of activity process steps as implemented by CLS 10. The business entity, contacts a commercial bank by phone 174 either to establish a credit line or to change a credit line. The business entity may be a remote individual applicant, a company, or an organization. CLS 10 processes 25 information 180 obtained manually from various commercial banks on an on-going basis and stores appropriate information in database 20. Database 20 has information about various banks' credit ratings as well as their financial condition. System 10 accesses 184 database 20 to obtain and maintain 190 information through Credit Line Module 150 (shown in Figure 4) about current credit line commitments, history, and 30 amount available for borrowing from each institution. System 10 user manually requests borrowing against credit line from bank 200, receives 208 borrowing approval from commercial banks, and finally obtains / maintains 214 real time current borrowings and the history relating to each credit line through Borrowing Module 160 (shown in Figure 4). Commitment fees are paid 216 to each bank on a quarterly basis

for the credit line. System 10 transmits 220 domestic as well as international wire information for cash movement to ensure that each bank is paid on a periodic basis. Once the banks are paid, system 10 transmits borrowing journal entries 230 to the general ledger through Journal Entry Module 170 (shown in Figure 4).

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I. CREDIT LINE MODULE 150

Credit Line Module 150 addresses credit application, approval and tracking process.

The applicant's credit exposure is accessed using a central database that automatically tracks the applicant's current credit exposure information. The central database includes information relevant to an applicant's credit exposure. In a specific embodiment, the central database includes current credit line commitments, credit history, amount of available credit for borrowing, repayment history and real-time current borrowing information. As used herein, track means to monitor and/or update by the user.

In an exemplary embodiment, system 10 (shown in Figure 1) generates credit line reports. Various credit line reports are generated, including, but not limited to, management reports, credit line accrual reports, accounting reports, cash management reports, payment reports and commitment fee wire files. The credit line report is detailed by bank, expiration, originator, credit line type or any other method of detailing. The credit line accrual report is detailed by pay type, bank name or any other detailing method. In a specific embodiment, system 10 submits at least one file to a bank wire system.

Credit Line Module 150 performs several functions, some of which are described briefly in Figure 6 and Figure 7 and explained hereunder. Figures 6 and 7 describe a function type 232, a function description 234, and function dependencies 236. Each of the function types 232 are displayed to the user in user friendly screens (not shown in Figures 6 and 7). Function descriptions 234 provide brief overview of the functionality. On the other hand, function dependencies 236 provides the user with information pertaining to various dependencies which must be addressed prior to accessing a specific function. The user accesses the functionality features after the user logs on to system 10 through a system displayed log-in 240 screen with a valid user identification and a valid password.

Various functionality features of Credit Line Module 150 are:

a. Maintain State / Country 250 features allows the user to add, update, delete and view valid state and country types.

5 b. Maintain Basis Type 254, Maintain Bank Rating 256, Maintain Credit Line Type 258, Maintain Payment Type 264, and Maintain Bank 270 allow the user to add, update, delete and view a valid functionality specific to each one of these functions.

c. Change Bank Rating History 284 permits the user to perform updates of bank rating for a specific bank.

10 d. Other functionality and features of Credit Line Module 150, as described briefly in Figures 6 and 7, include Maintain Bank Contact 290, Maintain Commitment Fee 294, Add Credit Line Contract 298, Amend Credit Line Contract 302, Cancel Credit Line Contract 308, Extend Credit Line Contract 312.

15 e. Other functionality and features of Credit Line Module 150, as further described in Figures 6 and 7, include Change Maturity Type 320, Merge Credit Line Contract 324, Update Notes 328, Generate Credit Line Detail Report by Bank 330, Generate Credit Line Detail Report by Expiration 334, Generate GECC/GE Credit Lines Ranking Report 340, Generate GECC Credit Lines Report 344, Generate GECS Credit Lines 350, Generate GECC Ratings Report 354, Generate Credit Line Accrual Report by Bank Name 360, Generate Credit Line Accrual Report by Pay Type 364, Generate Credit Line Payment Report 370, Generate Gateway ACH Report 374, Generate Gateway ACH File 380 which creates ACH fee payment file for submission to the bank wire system, Generate Gateway Wire 384 which lists federal wire fee payment information, and finally Generate Gateway Wire File 390 which creates wire fee payment file for submission to the bank wire system.

II. BORROWING MODULE 160

30 In an exemplary embodiment, Borrowing Module 160 of system 10 generates various types of borrowing reports. Borrowing reports generated include management reports, accounting reports and cash management reports. In an alternative embodiment, the borrowing report is detailed by due date, expiration of a credit line, location, unused credit lines, value date, bank, repayment report, interest paid by currency, domestic borrowing, domestic wire report and interest report in

local currency. In a specific embodiment, system 10 inputs the reports to a bank wire system. In an alternative embodiment, system 10 (shown in Figure 1) also automatically transmits domestic and international wire for cash movements to a bank.

5 In yet another embodiment, system 10 (shown in Figure 1) generates composite rate report. Composite rate report display average rate information for each borrowing outstanding during a select period. In another exemplary embodiment, system 10 maintains reports and other records in a cross-reference file or a central database.

10 Borrowing Module 160 performs several functions, some of which are depicted in Figure 8 and briefly explained hereunder. The user accesses the functionality features after the user logs on to system 10 through a system displayed log-in screen with a valid user identification and a valid password.

15 The functionality features of Borrowing Module 160, as described briefly in Figure 8, include: Maintain Currency Type 400, Maintain Available Currency 404, Maintain Currency Exchange Rate 408, Maintain Borrowing Spread 412, Maintain Benchmark Description 416, Maintain Benchmark Rate 420, Maintain Fed Funds Rate 424, Add Borrowing 428, Delete Borrowing 432, Add Repayment 436, Generate Borrowing Detail Report by Due Date 440, Generate Borrowing Detail Report by Expiration 444, Generate Borrowing Detail Report by State / Country 448, Generate Borrowing Detail Report by Unused Credit Line 452, Generate Borrowing Detail Report by Value Date 456, Generate Capacity Available Report by Bank 460, Generate Borrowings Repayment Report 464, Generate Borrowings Interest Paid Report by Currency 468, Generate Borrowing Domestic ACH Report 472, Generate Borrowings Domestic Wire Report 476, Generate Borrowings Interest Accrual Report in Local Currency 480, and Generate Composite Rate Report 484. The capabilities of each of these functions as well as dependencies are briefly explained in Figure 8.

III. JOURNAL ENTRY MODULE 170

30 Journal Entry Module 170 performs several functions, some of which are described briefly in Figure 9 and explained hereunder. Various functionality is accessed by the user after the user logs on to system 10 through a system displayed log-in screen with a valid user identification and a valid password.

5 The functionality features of Journal Entry Module 170, as described briefly in Figure 9 includes: Maintain Cross Reference 488, Select Transactions 492, Preview Transactions 496, Delete Transactions 500, Create Journal Entries 504, Preview Journal Entries 508, Export Journal Entries 512, Delete Journal Entries 516, and View JE Text File 520. The capabilities of each of these functions as well as dependencies are briefly explained in Figure 9.

IV. USER STEPS

10 Figure 10 is an alternative embodiment of Credit Line Process Flow. In this embodiment, the central database described above is maintained. More specifically, Figure 10 is a flowchart for process steps executed in one embodiment of system 10 (shown in Figure 1). First, a user or applicant will log on 530 to system 10 and select an option to maintain 540 the database. In a specific embodiment, the applicant is a bank, a company or any other organization. In yet another specific embodiment, an applicant or user enters a valid user identification and valid password into system 10. The user checks 544 whether a bank exists or does not exist in system 10. Where a particular bank does not exist, information about the bank is added 546 to system 10 by a user or applicant. If the bank does exist, the information about the bank is then edited 548. The information could be viewed 560 by the user relating to any bank that has been added or already exists in the system.

15 20 The next step involves the user checking 570 whether a credit line for a given bank exists or not. If after viewing 560 the bank, if credit line does not exist, the user adds 574 credit line to system 10. If a credit line does exist, it is edited 578 or viewed 580 by the user. The next step in the process involves determining 590 if the borrowing exists for credit line relating to a particular bank. If no borrowing information exists for actual borrowings, the user adds 594 the borrowing into system 10. Where borrowing exists against a given credit line, it is viewed 596, or deleted 600, as appropriate. If the user deletes borrowing 600, the user also deletes repayment with interest 604. After viewing borrowing, the user is requested to determine 610 whether repayment exists for a given borrowing. If repayment does not exist, the user adds 620 partial or full repayment with the interest as appropriate. If the repayment does exist, the user simply views repayment information 630.

25 30 In an alternative embodiment, system 10 (shown in Figure 1) maintains information beneficial to the determination of an applicant's eligibility for credit within the central database described above. The information includes, but is not

5 limited to, currency types, currency exchange rates, descriptions of applicants, exchange rates, federal funds rates, basis types, bank ratings, credit line types, payment types, bank information, bank rating history, bank contacts, journal entries and commitment fee information. Any currency type is included. An example of a currency type includes, but is not limited to, Euro legacy currency. Maintaining basis types include, but is not limited to, allowing a user or applicant to add a basis type. Maintaining bank information includes, but is not limited to, allowing a user or applicant to change a bank name and update notes.

10 System 10 (shown in Figure 1) previews a transaction in an alternative embodiment. Previewing a transaction includes displaying the record in the transaction file that is selected by using the cross-reference file and data parameters. If the selection criteria include unwanted transactions, a delete function is used to eliminate them.

15 After log-on authentication 530, System 10 also offers menu choice options for generating Credit Line Reports 640 as well as Generating Borrowing Reports 650. Generate Credit Line Reports 640 permits the user to Generate Management Reports 654, Generate Accounting Reports 656, and Generate Cash Management Reports 658. System 10 allows the user to Generate Commitment Fee Wire Files 660 and to Submit Wire File to Bank Wire System 670. Similarly, Generate Borrowing Reports 650 permits the user to Generate Management Reports 674, Generate Accounting Reports 676, and Generate Cash Management Reports 678. Generate Cash Management Reports 678 is linked to Input Bank Wire Data to Bank Wire System 680, directly.

V. SYSTEM GENERATED REPORTS

25 As discussed in Figures 6, 7, 8, and 9, system 10 generates a variety of reports including Credit Line Detail Report by Bank 330, Credit Line Detail Report by Expiration 334, GECC/GE Credit Lines Ranking Report 340, GECC Credit Lines Report 344, GECS Credit Lines 350, GECC Ratings Report 354, Credit Line Accrual Report by Bank Name 360, Credit Line Accrual Report by Pay Type 364, Credit Line Payment Report 370, Gateway ACH Report 374, Gateway ACH File 380 which creates ACH fee payment file for submission to the bank wire system, Gateway Wire 384 which lists federal wire fee payment information, and finally Gateway Wire File 390 which creates wire fee payment file for submission to the bank wire system.

Although some of these reports have been described in terms of various specific embodiments, it is not intended that these reports be limited to these embodiments. Modifications within the spirit of invention will be apparent to those skilled in the art.

5 Figure 11 is an exemplary embodiment of credit line detail report by bank 330. This report displays selected bank and credit line information by bank name. Report 330 identifies a bank name 700, whether the bank is a foreign or a domestic bank 704, and also a bank rating code 708. Additionally, the report also identifies the credit line amount for GE 712, GECC 714 and GECS 720 in millions of 10 dollars. A commitment fee in basis points 722 is also identified on the report. The report further identifies a calculation code 728, an effective date 730, and a termination date 734 of the credit line.

15 Figure 12 is an exemplary embodiment of a credit line detailed report by expiration 334. Report 334 displays selected bank and credit line information sorted by expiration date. Normally, report 334 is run on a monthly basis for management audit purposes. In an exemplary embodiment, report 334 identifies a bank code 740, a bank name 742, a credit line maturity type 744, a credit line amount for GE 746, GECC 748 and GECS 750. The report further identifies a commitment 20 fee in basis points 756 as well as a termination date 760 of the credit line. The user has an option to insert any notes on this report, which are reflected against each bank. The report can be sorted in many different ways to improve the efficiency and utilization of the data.

25 Figure 13 is an exemplary embodiment of credit lines ranking report 340. This report displays a total credit line amount originated against each bank by entity. The content of the report includes a bank name 770, credit lines originators such as GECC 772 and GE 774, total credit lines 778 originated by GECC 772 and GE 774 with maturity type greater than one year, and some other relevant information. For example, in an exemplary embodiment the report identifies that Bank of America 780, with whom GECC 772 has originated credit line of \$2 billion 30 and GE 774 has originated credit line of \$200 million, has extended a total credit line of \$2.2 billion.

Figure 14 is an exemplary embodiment of a credit line report 344 of GECC 772. Report 344 analyzes the credit lines originated by GECC 772 by credit types for domestic and international banks. Report 344 identifies a credit line type

790, a total credit line amount for domestic banks 794, a number of domestic banks involved in providing the total domestic credit line 798, a total credit line amount for international banks 800, a number of international credit lines 802, a total domestic and international credit line amount 806 and a number of domestic and international credit lines 810. The report further identifies total commitment fees in dollars 812 as well as commitment fees in basis points 816.

Figure 15 is an exemplary embodiment of GECC ratings report 354. Report 354 analyzes credit lines of GECC 772 by bank rating for domestic and international bank as of a specific date 828. For example, report 354 identifies that, 16.50% of the total credit lines 830 as of December 31, 1999 were provided by domestic and international banks having a credit rating of "A" 834. In other words, out of \$30.970 billion dollars of total credit lines 840 outstanding as of December 31, 1999, \$5.110 billion dollars of credit lines 842 were provided by domestic and international banks having a credit rating of "A" 834.

Figure 16 is an exemplary embodiment of credit line accrual report by bank name 360. This report displays commitment fee accruals for each credit line contract by a bank name 850 for a designated period 852. The report identifies a bank name 850, a payment type 854, cash management's model number 856, a fee accrual amount in U.S. dollars 860, a credit line amount 864, a commitment fee in basis points 866, number of days in the period 868, number of month-days and year-days used in the calculation, an effective date of the credit line contract 870, and a termination date 874 of the credit line contract.

Figure 17 is an exemplary embodiment of credit line accrual report by pay type 364. Report 364 displays commitment fee accruals 880 for each credit line contract 882 by a payment type 884 for a designated period 886. This report is similar to the report in Figure 16 and can be interpreted accordingly.

Figure 18 is an exemplary embodiment of a credit line payment report 370. Report 370 displays commitment fee payments for each credit line contract by payment type for designated period. Report 370 is run quarterly or at such frequent periods as needed by the management. It includes a payment type 890, a bank identification number 892, cash management model number 894, a bank name 896, and a fee payment amount 898 in U.S. dollar for each bank.

Figure 19 is an exemplary report on Gateway ACH report 374. This report displays the payment information in the Gateway ACH file. Report 374 is run quarterly. It is important that a credit line payment report and payment data to the credit line payment table is posted prior to running report 374. Report 374 includes funds transfer type 900, a transfer model identification number 902, an amount 904, which is a commitment fee amount in U.S. dollars, and a value date 908 used by the bank for its internal calculations.

Figure 20 is an exemplary embodiment of Gateway Wire report 384. Report 384 displays the payment information in the Gateway Wire file. Report 384 is run on a quarterly basis. Report 384 also includes a funds transfer type 910, a transfer model identification number 912, an amount of commitment fees in U.S. dollars 914, and a value date 920 used by bank for calculations.

Borrowing Module 160 of system 10 also generates a variety of management reports including Borrowing Detail Report by Due Date 440, Borrowing Detail Report by Expiration 444, Borrowing Detail Report by State / Country 448, Borrowing Detail Report by Unused Credit Line 452, Borrowing Detail Report by Value Date 456, Capacity Available Report by Bank 460, Borrowings Repayment Report 464, Borrowings Interest Paid Report by Currency 468, Borrowing Domestic ACH Report 472, Borrowings Domestic Wire Report 476, Borrowings Interest Accrual Report in Local Currency 480, and Composite Rate Report 484.

Figure 21 is an exemplary embodiment of Borrowing Detail Report By Due Date 440. This report displays selective borrowing information by due date. For example, report 440 identifies an originator of credit line 930, a borrower 932, a bank name 934, a currency type 936 such as Euro currency or Japanese Yen, a borrowed amount in local currency 940, an exchange rate 942 at the time of borrowing, borrowed amount in U.S. dollar 944, a due date 946, and any comments 948 on borrowings.

Figure 22 is an exemplary embodiment of a Borrowing Detail Report By Expiration 444. Report 444 displays selected borrowing information by credit line termination date. This report is similar to report 440 depicted in Figure 21. However, report 444 adds some additional information such as a date 950 that funds are available, a maturity date 952, U.S. dollar amount available for borrowing 954 and a credit line termination date 956.

Figure 23 is an exemplary embodiment of Borrowing Detail Report By State/Country 448. Report 448 displays selected borrowing information by a state/country 960 and a currency type 962. It also segregates the report in different ways to make it user friendly.

5 Figure 24 is an exemplary embodiment of Borrowing Detail Report By Unused Credit Lines 452. Report 452 displays selected borrowing information 964 by unused credit line 968. Report 452 is printed on an as needed basis. This report is similar to reports 444 and 448, as identified in Figures 22 and 23 respectively.

10 Figure 25 is an exemplary embodiment of Borrowing Detail Report By Value Date 456. Report 456 displays selected borrowing information 970 by a value date 972.

15 Figure 26 is an exemplary embodiment of capacity available report by bank 460. Report 460 displays unused credit line information by bank name. For example, in a specific embodiment report 460 displays a credit line identification number 976, an originator of a credit line 978, a bank name with which the credit line exists 980, a state or a country code 982, and an unused credit line 984 in U.S. dollars with a termination date 986 of a credit line.

20 Figure 27 is a borrowings repayment report 464. Report 464 displays selected borrowing repayment information by currency type within payment type. For example, report 464 identifies a particular payment type 990. Either ACH or wire 990, a bank identification code, a bank name 994, a currency code 996, a principal repayment amount in local currency 998, an interest repayment amount in local currency 1000, and a total payment 1002, which includes principal repayment as well as interest repayment in total currency. Reviewing report 464, the user notes that 25 Citibank has been paid approximately \$100 million in local currency with a total interest payment of \$119,444.44, and the payment type was ACH.

Figure 28 is an exemplary embodiment of borrowings interest paid report by currency 468. Report 468 displays interest paid on borrowings information for a selected period 1008 by currency 1010 and a spread 1012.

30 Figure 29 is an exemplary embodiment of borrowings domestic ACH report 472. Report 472 displays domestic ACH funds transfer information for the repayment date. Report 472 also displays a funds transfer type 1014, total payment

1016 (which is broken down into principal and interest components), a repayment date 1018 and a value date 1020 which is the date used by banks for their calculations.

Figure 30 is an exemplary embodiment of borrowings domestic wire report 476. Report 476 displays domestic wire funds transfer information for the repayment date. The report identifies cash management's funds transfer code (type) 1022, transfer model I.D. 1024 which identifies cash management's model identification number, principal payment in local currency 1026, an interest payment in a local currency 1028, and a total payment 1032 which includes principal payment as well as interest payment in local currency. Report 476 also identifies a repayment date 1034 as well as a value date 1036.

Figure 31 is an exemplary embodiment of borrowings interest accruals report in local currency 480. Report 480 displays interest accrual information for a selected period. For example, report 480 identifies an originator of the credit line 1040, a borrower's name 1042, name of a bank 1044, a currency type 1046, an amount borrowed 1050 in local currency, interest accrued to date 1052, a borrowing spread 1056, a benchmark rate 1060, days outstanding in period 1062, a basis type 1066, a value date 1070, and a due date or a maturity date (not shown).

Figure 32 is an exemplary embodiment of composite rate report 484. Report 484 displays average rate information for each borrowing outstanding during the selected period. It identifies a name of a borrower 1080, a borrowing identification number 1082, credit line identification 1084, a currency type 1086, a start date (a date that funds are available) 1090, a maturity date (which is a due date) 1092, a loan period 1094, an ending balance 1096 which is the outstanding balance in local currency at the end of a report period, number of days outstanding in a report period 1098, and an average balance 1100 including interest expense 1102 and average rate 1104.

Credit Line Module 150, Borrowing Module 160 as well as Journal Entry Module 170, as disclosed in Figures 6, 7, 8 and 9 also generate other reports. These reports can be rearranged in different ways to meet the expectations of the management and to implement proper controls in the business operations.

While the invention has been described in terms of various specific embodiments, those skilled in the art will recognize that the invention can be practiced with modification within the spirit and scope of the claims.

WHAT IS CLAIMED IS:

1. A method for tracking bank credit lines and borrowing, using a Credit Line System coupled to a centralized database, said method comprising the steps of:

tracking credit ratings of a bank;

5 requesting the bank to establish a line of credit;

accessing a centralized database to obtain and maintain information regarding the line of credit;

10 automatically transmitting domestic and international wire information for cash movement to the bank; and

posting journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

15 2. A method in accordance with Claim 1 wherein said step of accessing a centralized database to obtain and maintain information further comprises the steps of:

accessing at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

15 20 updating at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

3. A method in accordance with Claim 1 wherein said step of accessing a centralized database to obtain and maintain information further comprises the steps of:

accessing at least one of real-time current borrowings, repayments and history for each credit line; and

25 25 updating at least one of real-time current borrowings, repayments and history for each credit line.

4. A method in accordance with Claim 1 wherein said step of posting journal entries to a general ledger further comprises the step of transmitting borrowing journal entries to the general ledger.

5 5. A method in accordance with Claim 1 wherein said step of tracking credit rating of a bank further comprises the step of tracking any financial institution's credit rating.

6. A method in accordance with according to Claim 1 wherein said step of posting journal entries to a general ledger further comprises the step of processing information contained in the centralized database.

10 7. A method according to Claim 1 wherein said step of updating at least one of real-time current borrowings, repayments and history for each credit line further comprises the step of updating real time borrowings in multi-currency.

8. A method according to Claim 1 further comprising the step of borrowing under the credit line.

15 9. A method for tracking bank credit lines and borrowing, using a Credit Line System coupled to a centralized database, said method comprising the steps of:

processing information utilizing a credit line module, a borrowing module, and a journal entry module;

20 creating journal entries; and

posting the journal entries to record the transactions on a general ledger for facilitating the preparations of financial statements.

10. A method in accordance with Claim 9 wherein said step of processing information further comprises the steps of:

25 maintaining information within three modules;

generating a variety of management reports; and

printing the variety of management reports.

11. A method in accordance with Claim 10 wherein said step of maintaining information further comprises the steps of:

5 reviewing information contained in the database periodically; and

 updating information in the centralized database by at least one of adding information to the centralized database, and deleting information as required to keep the system current.

10 12. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

15 13. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowings Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Country, and a Composite Rate Report.

20 14. A method in accordance with Claim 10 wherein said step of generating a variety of management reports further comprises the step of generating a variety of Journal Entry Reports in a pre-determined formats.

25 15. A system for tracking bank credit lines and borrowing against the credit lines using a Credit Line System, said system comprising:

a server system, a client system configured with a browser, a centralized database coupled to said server system, said server system connected to said client system and configured to:

track credit ratings of a bank;

5 access a centralized database to obtain and maintain information regarding the line of credit;

transmit domestic and international wire information for cash movement to the bank; and

10 post journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

16. A system in accordance with Claim 15 wherein said server system further configured to:

access at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

15 update at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

17. A system in accordance with Claim 15 wherein said server system further configured to:

20 access at least one of real-time current borrowings, repayments and history for each credit line; and

update at least one of real-time current borrowings, repayments and history for each credit line.

18. A system in accordance with Claim 15 wherein said server system further configured to transmit borrowing journal entries to the general ledger.

25 19. A system in accordance with Claim 15 wherein said server system further configured to track any financial institution's credit rating.

20. A system in accordance with Claim 15 wherein said server system further configured to process information contained in the centralized database.

5 21. A system in accordance with Claim 15 wherein said server system further configured to update real time borrowings in multi-currency.

22. A system in accordance with Claim 15 wherein said server system further configured to borrow under the credit line.

23. A system for tracking bank credit lines and borrowing using a Credit Line System, said system comprising:

10 a server system, a client system configured with a browser, a centralized database coupled to said server system, said server system connected to said client system and configured to:

15 process information contained in the centralized database utilizing modules comprised of:

20 a credit line module to maintain credit lines;

25 a borrowing module to maintain borrowings from the bank; and

20 a journal entry module, said journal entry module integrated with the credit line module and the borrowing module to process information to create journal entries and post the journal entries to record the transactions on the general ledger for facilitating the preparations of financial statements.

24. A system in accordance with Claim 23 wherein said server system further configured to:

25 maintain information within three modules;

25 generate a variety of management reports; and

25 print the variety of management reports.

25. A system in accordance with Claim 23 wherein said server system further configured to:

review information contained in the database periodically; and

update information in the centralized database by at least one of adding information to the centralized database, and deleting information as required to keep the system current.

5 26. A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

10 15 27. A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowing Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Currency, and a Composite Rate Report.

15 20 25 28. A system in accordance with Claim 23 wherein said server system further configured to generate a variety of Journal Entry Reports in a pre-determined formats.

20 25 29. A system in accordance with Claim 23 wherein said server system further configured to establish a communication link with the client system and authenticate the client system.

25 30 30. A system in accordance with Claim 23 wherein said server system further configured to link with a client system by at least one of a wide area network, a local area network, an intranet and the Internet.

31. A computer program for tracking bank credit lines and borrowing using a Credit Line System, the Credit Line System which includes a server system, a client system configured with a browser, a centralized database coupled to the server system, the server system connected to the client system, said computer program comprising:

5 a code segment to process information contained in the centralized database utilizing a credit line module to maintain credit lines;

a code segment to maintain borrowings against a credit line with a bank utilizing a borrowing module; and

10 a code segment to process journal entries utilizing a journal entry module; the journal entry module integrated with the credit line module and the borrowing module to process information to create borrowing journal entries and post the borrowing journal entries to record the transactions on the general ledger for facilitating the preparations of financial statements.

15 32. A computer program for tracking bank credit lines and borrowing using a Credit Line System, comprising:

a code segment that tracks credit ratings of a bank;

a code segment that accesses a centralized database to obtain and maintain information regarding the line of credit;

20 a code segment that transmits domestic and international wire information for cash movement to the bank; and

a code segment that posts borrowing journal entries to a general ledger for financial monitoring, reporting and auditing purposes.

25 33. The computer program as recited in Claim 32 further comprising:

a code segment that accesses at least one of current credit line commitments, history and amount available for borrowing from the financial institution; and

a code segment that updates at least one of current credit line commitments, history and amount available for borrowing from the financial institution.

34. The computer program as recited in Claim 32 further comprising:

a code segment that accesses at least one of real-time current borrowings, repayments and history for each credit line; and

a code segment that updates at least one of real-time current borrowings, repayments and history for each credit line.

35. The computer program as recited in Claim 32 further comprising a code segment that transmits borrowing journal entries to the general ledger.

36. The computer program as recited in Claim 32 further comprising a code segment that tracks any financial institution's credit rating.

37. The computer program as recited in Claim 32 further comprising a code segment that processes information contained in the centralized database.

38. The computer program as recited in Claim 32 further comprising a code segment that updates real time borrowings in multi-currency.

39. The computer program as recited in Claim 32 further comprising a code segment that borrows under the credit line.

40. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Credit Line Module Reports in a pre-determined format including at least one of a Credit Line Detail Report by Bank, a Credit Line Detail Report by Expiration, a Credit Lines Ranking Report, a Credit Lines Report, Credit Lines, Ratings Report, a Credit Line Accrual Report by Bank Name, a Credit Line Accrual Report by Pay Type, a Credit Line Payment Report, a Gateway ACH Report, a Gateway ACH File which creates ACH fee payment file for submission to the bank wire system, a Gateway Wire which Lists Fed wire fee

payment information, and a Gateway Wire File which Creates wire fee payment file for submission to the bank wire system.

41. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Borrowing Module reports in a pre-determined format including at least one of a Borrowing Detail Report by Due Date, a Borrowing Detail Report by Expiration, a Borrowing Detail Report by State / Country, a Borrowing Detail Report by Unused Credit Line, a Borrowing Detail Report by Value Date, a Capacity Available Report by Bank, a Borrowings Repayment Report, a Borrowings Interest Paid Report by Currency, a Borrowings Domestic ACH Report, a Borrowings Domestic Wire Report, a Borrowings Interest Accrual Report in Local Currency, and a Composite Rate Report.

42. The computer program as recited in Claim 32 further comprising a code segment that generates a variety of Journal Entry Reports in a pre-determined formats.

43. The computer program as recited in Claim 32 further comprising a code segment that generates a journal entry file in a predetermined format for posting to a general ledger.

44. The computer program as recited in Claim 32 wherein the data is received from the user via a graphical user interface.

SYSTEMS AND METHODS FOR CREDIT LINE
MONITORING

ABSTRACT OF THE DISCLOSURE

In one embodiment, the present invention is a method and a system for tracking bank credit lines and borrowing. The method involves tracking credit ratings of a bank, requesting the bank to establish a line of credit, accessing a centralized database to obtain and maintain information regarding the line of credit, automatically transmitting domestic and international wire information for cash movement to the bank, and finally posting borrowing journal entries to a general ledger for financial monitoring, reporting and auditing purposes. The method and the system are capable of handling multi-currency transactions involving domestic and international banks.

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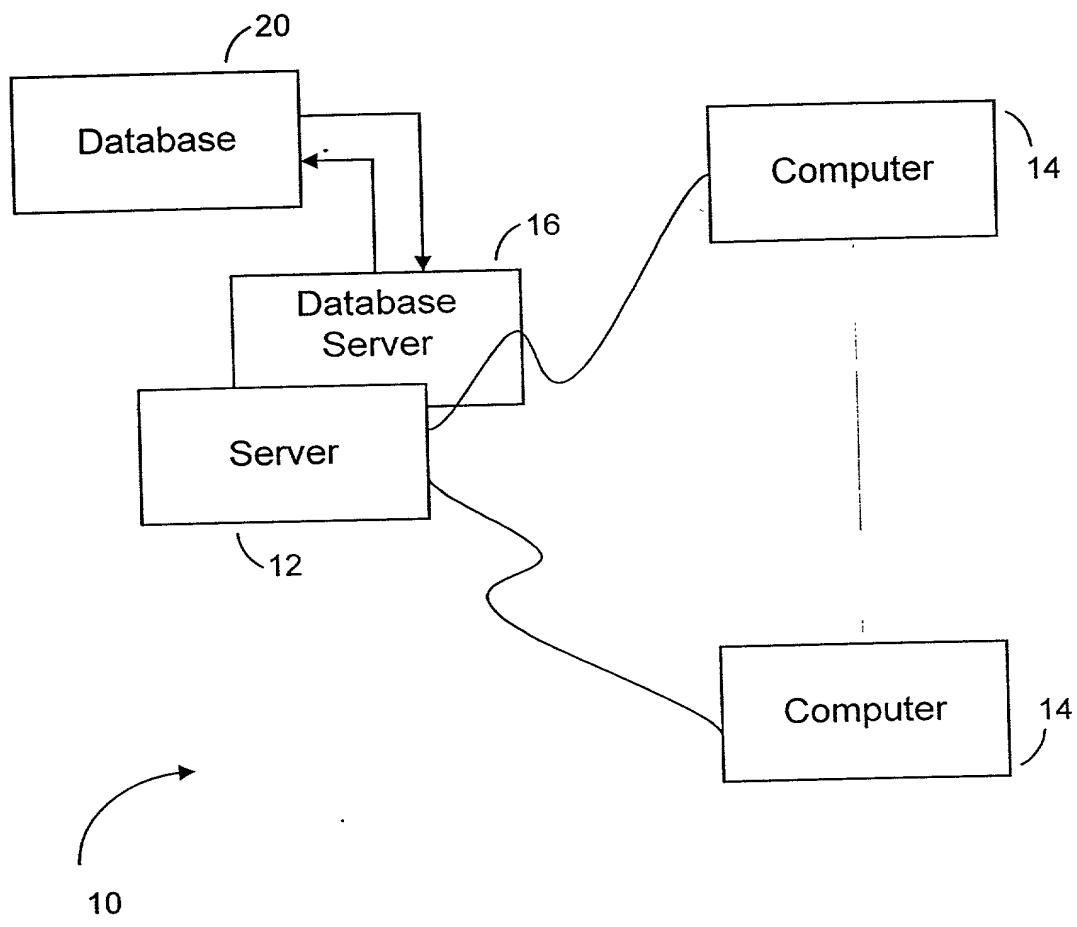


FIG. 1

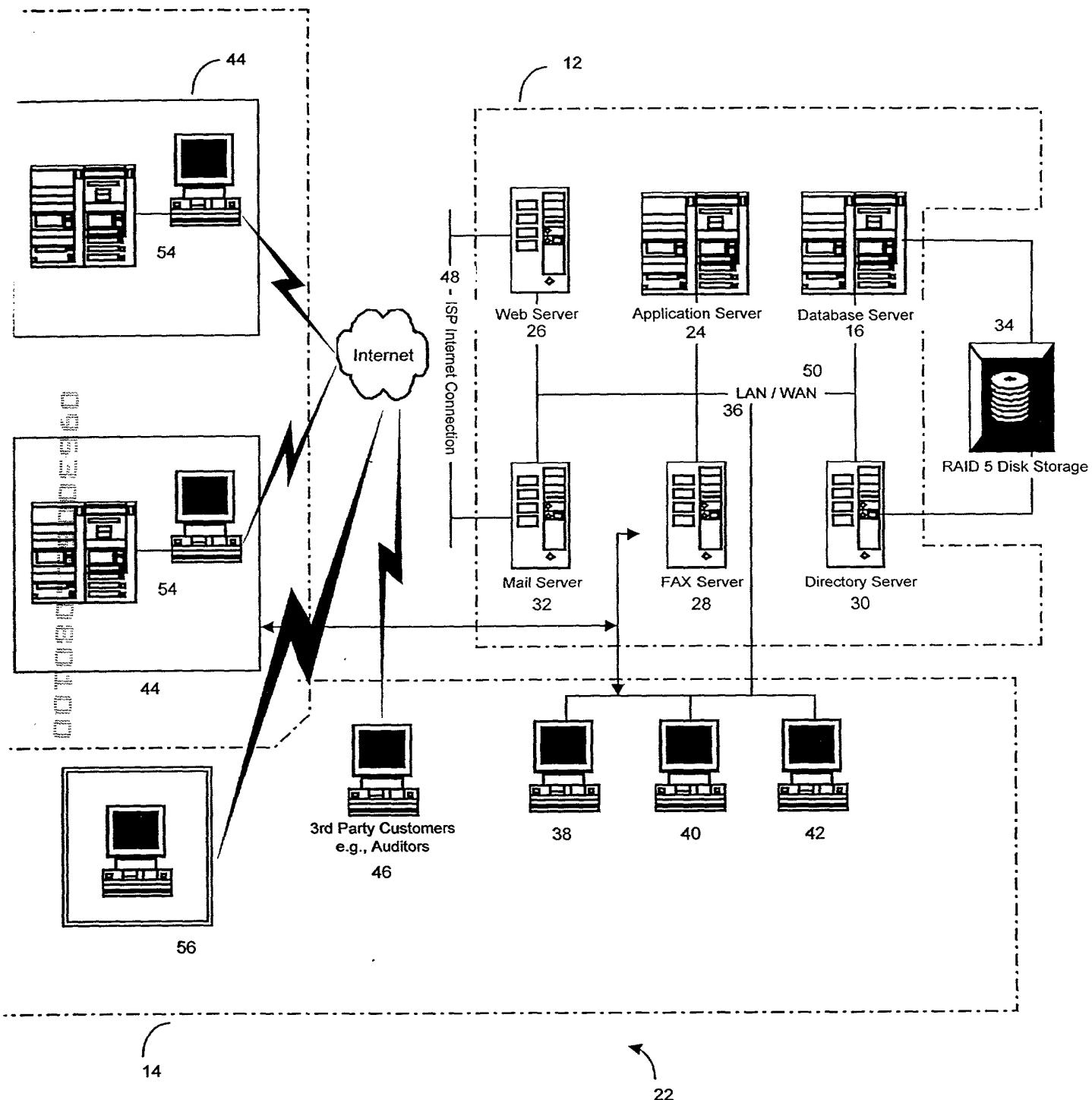
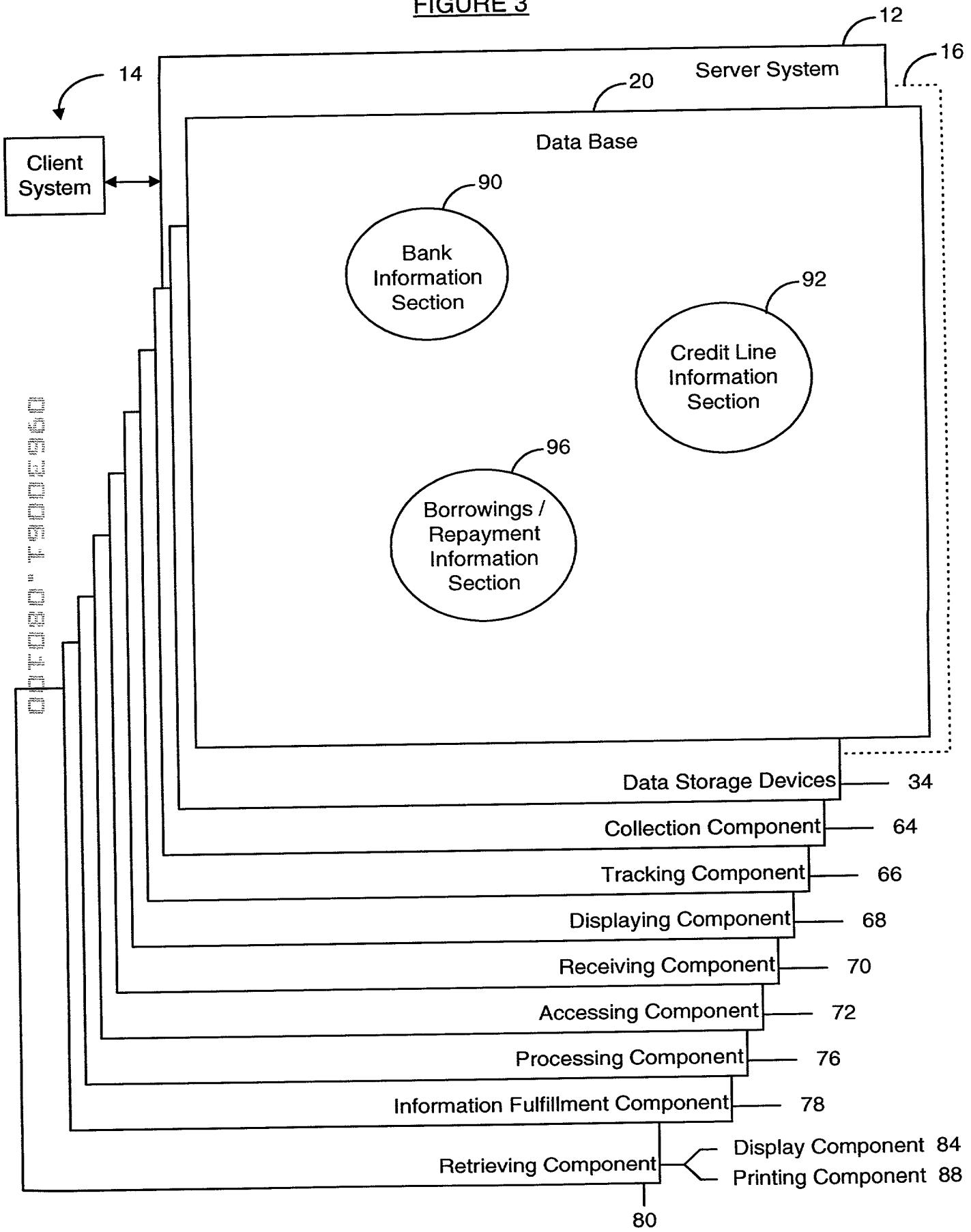


FIGURE 2

FIGURE 3



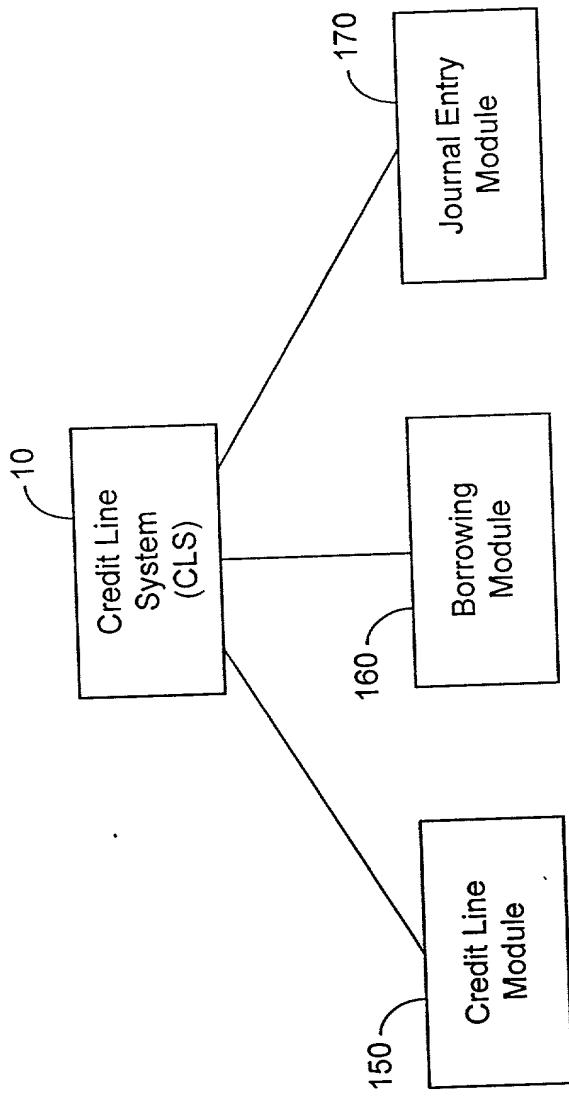


FIGURE 4

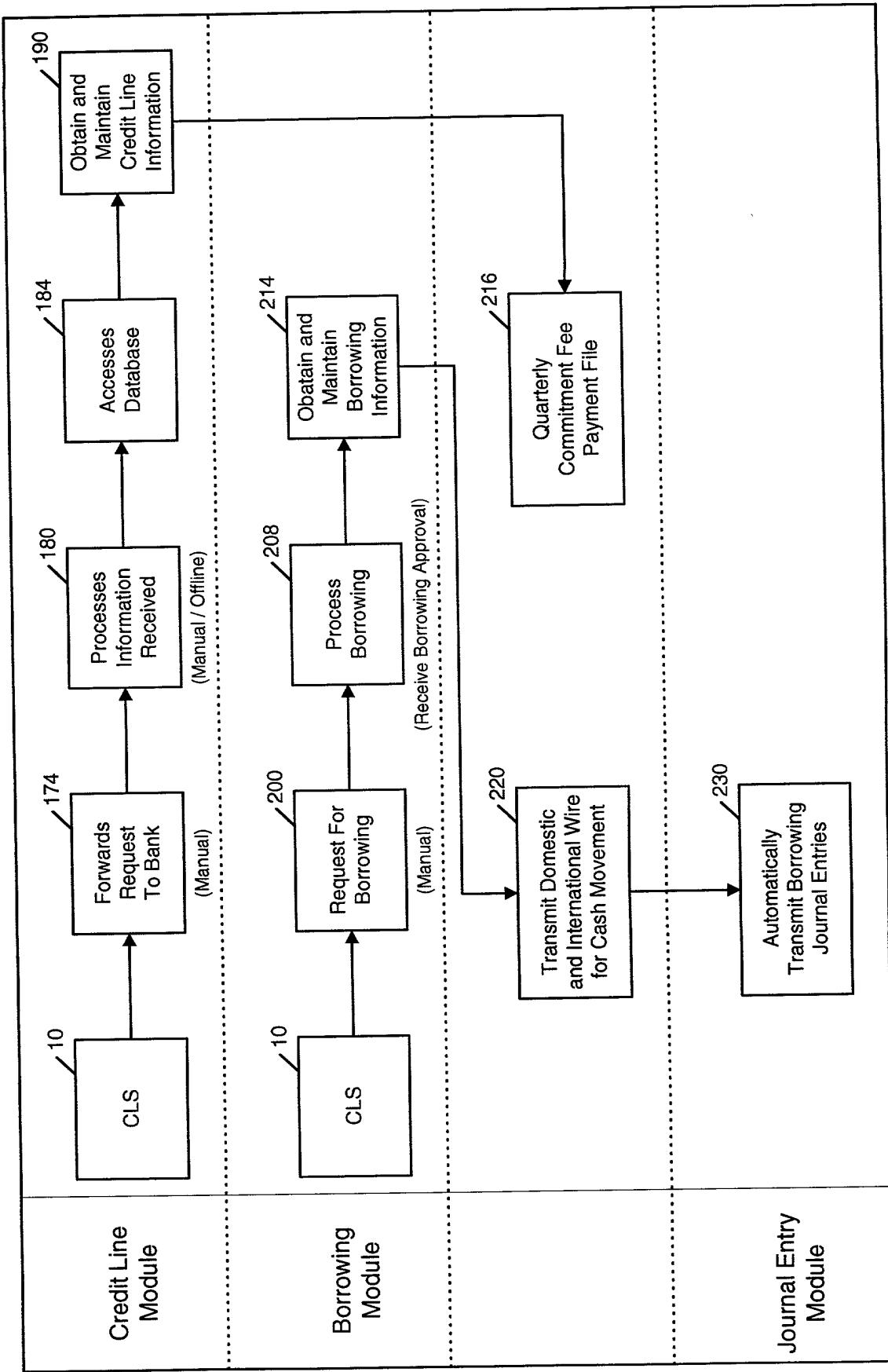
FIGURE 5

FIGURE - 6

Function Name	Function Description	Function Dependencies
150 1.00 Credit Line Module		
240 1.01 Login	Login process and security checks	N/A
250 1.02 Maintain State / Country Type	Add, update, delete, view valid state / country types	N/A
254 1.03 Maintain Basis Type	Add, update, delete, view valid basis types	N/A
256 1.04 Maintain Bank Rating	Add, update, delete, view valid bank ratings	N/A
258 1.05 Maintain Credit Line Type	Add, update, delete, view valid credit line types	N/A
264 1.06 Maintain Payment Type	Add, update, delete, view valid commitment fee payment types	N/A
270 1.07 Maintain Bank	Add, update, view bank information	Maintain State Type Maintain Bank Rating
284 1.08 Change Bank Rating History	Updates bank rating for a specific bank	Maintain Bank
290 1.09 Maintain Bank Contact	Add, update, view bank contact information	Maintain Bank
294 1.10 Maintain Commitment Fee	Add, view default credit line commitment fees by originator	N/A
298 1.11 Add Credit Line Contract	Add, view new credit line contract	Maintain Bank Maintain Basis Type Maintain Credit Line Type Maintain Payment Type Maintain Commit Fee
302 1.12 Amend Credit Line Contract	Amend, view credit line contract	Add Credit Line Contract
308 1.13 Cancel Credit Line Contract	Terminate, view credit line contract	Add Credit Line Contract
312 1.14 Extend Credit Line Contract	Extend the termination date on credit line contract	Add Credit Line Contract
316 1.15 Change Maturity Type	Change the maturity type of a contract	Add Credit Line Contract
324 1.16 Merge Credit Line Contract	Transfer credit line contract and borrowings to a merged or acquiring bank	Add Credit Line Contract

FIGURE - 7

328	1.17 Update Notes	Update credit line contract notes	Add Credit Line Contract
330	1.18 Generate Credit Line Detail Report by Bank	Lists credit line information by bank	N/A
334	1.19 Generate Credit Line Detail Report by Expiration	Lists credit line information by termination date	N/A
340	1.20 Generate GECC/GE Credit Lines Ranking Report	Lists GECC and GE originated credit lines by total credit line amount	N/A
344	1.21 Generate GECC Credit Lines Report	Analyzes GECC credit line types by total line for domestic and international banks, total fee in US\$ and fee in basis points	N/A
350	1.22 Generate GECS Credit Lines Report	Analyzes GECS credit line types by total Line for domestic and international banks, Total fee in US\$ and fee in basis points	N/A
354	1.23 Generate GECC Ratings Report	Analyzes GECC's Credit Lines by bank rating	N/A
360	1.24 Generate Credit Line Accrual Report by Bank Name	Lists fee accrual information by bank name	N/A
364	1.25 Generate Credit Line Accrual Report by Pay Type	Lists fee accrual information by payment type	N/A
370	1.26 Generate Credit Line Payment Report	Lists fee payment information	N/A
374	1.27 Generate Gateway ACH Report	Lists ACH fee payment information	Generate Credit Line Payment Report
380	1.28 Generate Gateway ACH File	Creates ACH fee payment file for submission to the bank wire system	Generate Credit Line Payment Report
384	1.29 Generate Gateway Wire Report	Lists Fed wire fee payment information	Generate Credit Line Payment Report
390	1.30 Generate Gateway Wire File	Creates wire fee payment file for submission to the bank wire system	Generate Credit Line Payment Report

Figure 8

160	2.00 Borrowing Module		
400	2.01 Maintain Currency Type	Add, update, delete, view valid currency types	N/A
404	2.02 Maintain Available Currency	Add, delete, view valid currency types for a credit line contract	Maintain Currency Type
408	2.03 Maintain Currency Exchange Rate	Add, delete, view valid currency exchange rates	Maintain Currency Type
412	2.04 Maintain Borrowing Spread	Add, delete, view valid borrowing spread	Maintain Credit Line Type
416	2.05 Maintain Benchmark Description	Add, update, delete, view valid benchmark descriptions	N/A
420	2.06 Maintain Benchmark Rate	Add, delete, view valid benchmark rates	Maintain Benchmark Description
424	2.07 Maintain Fed Funds Rate	Add, delete, view valid fed funds rates	N/A
428	2.08 Add Borrowing	Add, view new borrowing	Maintain Available Currency Maintain Currency Exchange Rate Maintain Borrowing Spread
432	2.09 Delete Borrowing	Delete, view borrowing	Maintain Benchmark Rate Maintain Fed Funds Rate
436	2.10 Add Repayment	Add, view repayments	Add Borrowing
440	2.11 Generate Borrowing Detail Report by Due Date	Lists borrowing information by due date	N/A
444	2.12 Generate Borrowing Detail Report by Expiration	Lists borrowing information by termination date	N/A
448	2.13 Generate Borrowing Detail Report by state / country	Lists borrowing information by state / country	N/A
452	2.14 Generate Borrowing Detail Report by Unused Credit Line	Lists borrowing information by unused credit line	N/A
456	2.15 Generate Borrowing Detail Report by Value Date	Lists borrowing information by value date	N/A
460	2.16 Generate Capacity Available Report by Bank	Lists unused amount of each credit line contract by bank name	N/A
464	2.17 Generate Borrowings Repayment Report	Lists repayment information by bank name within currency within payment type	N/A
468	2.18 Generate Borrowings Interest Paid Report by Currency	Lists interest paid by bank name within due date within currency within borrower	N/A
472	2.19 Generate Borrowings Domestic ACH Report	Lists principal, interest and total payment information by model id within transfer type	N/A
476	2.20 Generate Borrowings Domestic Wire Report	Lists principal, interest and total payment information by model id within transfer type	N/A
480	2.21 Generate Borrowings Interest Accrual Report in Local Currency	Lists interest accrual information by due date within currency within borrower	N/A
484	2.22 Generate Composite Rate Report	Lists interest expense, ending balance, average balance and average rate by currency within borrower	N/A

Figure 9

170-3.00 Journal Entry Module

188	3.01 Maintain Cross Reference	Provides journal entry information	N/A
192	3.02 Select Transactions	Selects principal draw down, principal repayment, interest payment and interest accrual transactions for journalization	Maintain Cross Reference
496	3.03 Preview Transactions	Views the selected transactions	N/A
500	3.04 Delete Transactions	Deletes transactions from the transaction file.	N/A
504	3.05 Create Journal Entries	Uses the transaction records to create journal entries	Select transactions
508	3.06 Preview Journal Entries	Views the journal entries	N/A
512	3.07 Export Journal Entries	Loads journal entries into test file on the 'C' drive	Create Journal Entries
516	3.08 Delete Journal Entries	Deletes the journal entries from the journal entry file	N/A
520	3.09 View JE Text File	Views the journal entries in the text file	N/A

FIGURE 10 Credit Line Process Flow

Bill, Vireo (Cinereus).

Credit Line Application Resides on Treasury Server

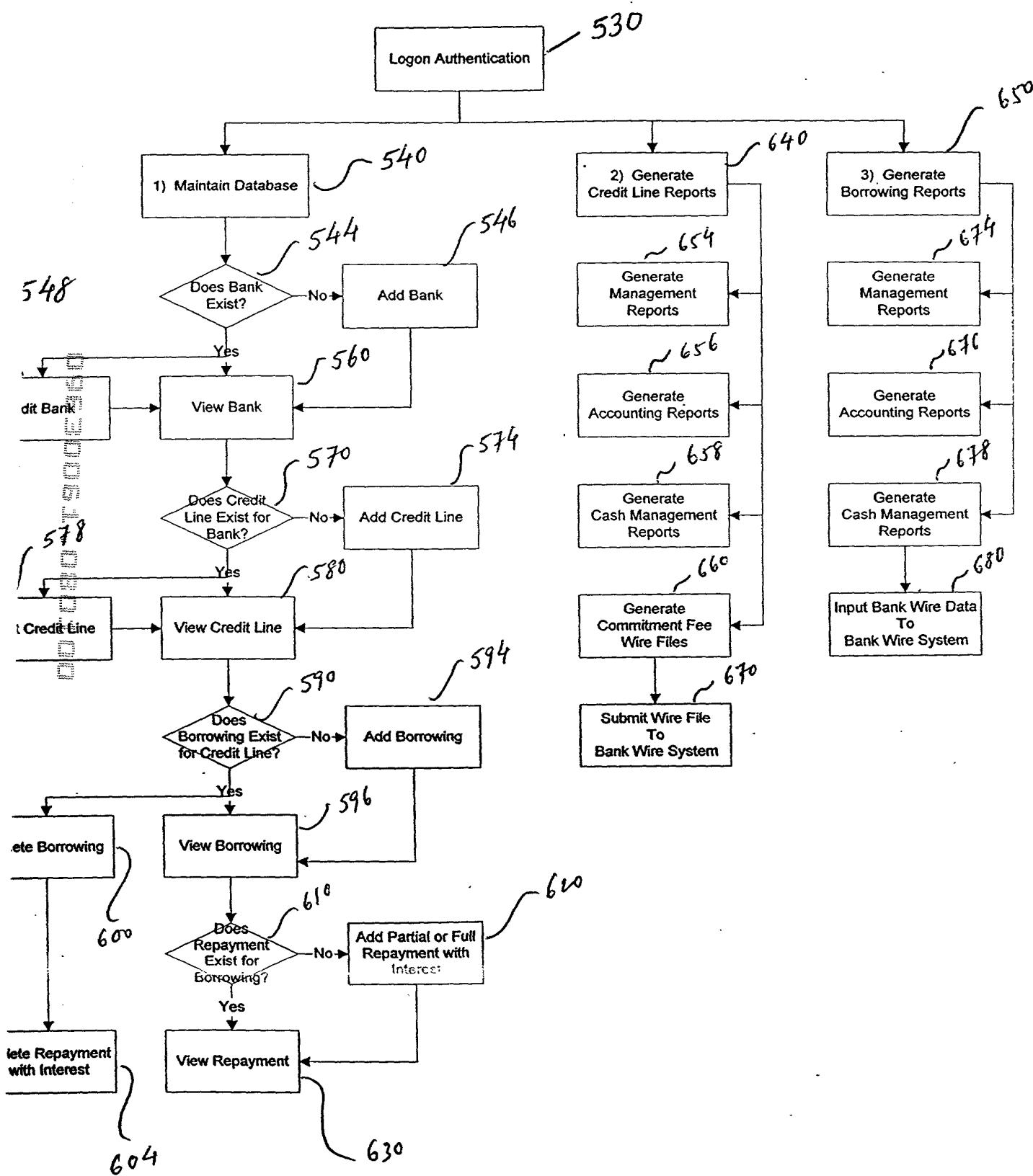


Figure 11

Generate Credit Line Detail Report by Bank

GECC Credit Lines Report By Expiration

1 of 8 100% 100% ReRun Report

Preview

CONFIDENTIAL

Run Date 1/6/2000 4:26:22 PM

700

704

714

720

722

734

708

712

728

730

Credit Line Detail Report

As of 1/2/2000

Available to (\$MM)

P Code BK Code Bank Name F/O State Country Rating CL Type Originator GE GECC GECS Fee Cal Effective Date Termination Date

P Code	BK Code	Bank Name	F/O	State	Country	Rating	CL Type	Originator	GE	GECC	GECS	Fee	Cal	Effective Date	Termination Date
UNI	UNI	UNION BANK	O	CA	US	BB	GECC	O	100	O	10.00	A	1/25/99	1/20/14	
WELL	WELL	WELLS FARGO BANK	O	CA	US	BB	GECC	O	50	O	6.00	A	6/28/99	6/26/04	
WELL	WELL	WELLS FARGO BANK	O	CA	US	BB	GECC	O	90	O	10.00	A	7/01/99	7/01/14	
FLT	FLT	FLEET BANK, N.A.	O	CT	US	BB	GE	100	100	O	6.00	A	7/01/99	7/23/04	
FLT	FLT	FLEET BANK, N.A.	O	CT	US	BB	GECC	O	300	O	10.00	A	7/01/99	5/01/14	
FLT	FLT	FLEET BANK, N.A.	O	CT	US	BB	GECC	130	130	130	8.00	A	11/01/99	4/07/04	
WACH	WACH	WACHOVIA	O	GA	US	BB	GECC	O	75	O	6.00	A	6/03/99	6/02/14	
WACH	WACH	WACHOVIA	O	GA	US	BB	GECC	O	115	O	12.00	A	6/03/99	6/03/14	
864	864	BANK OF HAWAII	O	CA	US	BB	GECC	O	65	O	6.00	A	11/01/99	4/07/14	
869	869	FIRST HAWAIIAN BANK	O	HI	US	BB	GECC	O	250	O	6.00	A	4/15/99	3/13/04	
80A	80A	BANK OF AMERICA, IL	O	IL	US	BB	GECC	O	40	O	6.00	A	4/15/99	4/15/14	
FNHC	FNHC	FIRST HS OF CHICAGO	O	IL	US	BB	GECC	O	250	O	10.00	A	11/01/99	1/16/14	
FNHC	FNHC	FIRST HS OF CHICAGO	O	IL	US	BB	GECC	O	75	O	12.00	A	8/01/99	8/01/14	
THT	THT	NORTHERN TRUST CO	O	IL	US	BB	GECC	O	65	O	10.00	A	11/01/99	4/07/14	
THT	THT	NORTHERN TRUST CO	O	IL	US	BB	GECC	O	40	O	6.00	A	11/01/99	4/07/14	
THT	THT	NORTHERN TRUST CO	O	IL	US	BB	GECC	O	30	O	6.00	A	6/03/99	6/02/14	
858	858	STATE STREET BK & TR CO	O	MA	US	BB	GECC	O	10	O	6.00	A	11/01/99	10/01/14	
858	858	STATE STREET BK & TR CO	O	MA	US	BB	GECC	O	75	O	10.00	A	10/01/99	10/01/14	
116	116	FNB MARYLAND (PRINCIPAL)	O	MD	US	BB	GECC	O	175	O	12.00	A	7/01/99	7/01/14	
865	865	COLONIAL BANK - DETROIT	O	MI	US	BB	GECC	O	95	O	6.00	A	6/03/99	6/02/14	
866	866	COMMERCE BANK - KS CITY	O	MO	US	BB	GECC	O	20	O	10.00	A	11/01/99	4/07/14	
863	863	COMMERCE BANK - KS CITY	O	MO	US	BB	GE	200	200	200	6.00	A	5/13/99	5/13/14	
80A	80A	BANK OF AMERICA	O	NC	US	BB	GECC	O	200	O	6.00	A	6/13/99	5/13/14	

Start End Search Back Forward Print Details Credit Line Add Credit Line Amend Credit Line Delete Credit Line Search

Figure 12

Generate Credit Line Detail Report by Expiration

CONFIDENTIAL
Run Date: 05/20/00 6:27:13PM

At: 12/31/99

Credit Line Detail Report By Expiration

740 742 744 746 756 760

BK Code	Bank Name	CL Type	Available (\$MM)	GE	GECC	GECS	Fee	Termination Date	Notes
BFCE	BANQUE FRANCAISE COMMERCIALE	TR	0	60	0	0	4.00		
BNP	BANQUE NATIONALE DE PARIS	TR	0	200	0	0	4.00		
CS	CREDIT SUISSE	TR	0	300	250	0	4.00		
FWL	FWL BANK LTD	TR	0	200	0	0	4.00		
SSB	STATE STREET BK & TR CO	TR	0	30	0	0	4.00		
SBD	SUNTRUST BANKS, INC	TR	0	75	0	0	4.00		
UJB	UNITED JERSEY BANK	TR	0	60	0	0	4.00		CHANGED NAME FROM TRUST COMPANY BANK
Count: 7									
*Total (\$MM):									
BNL	BANCA NAZIONE DEL LAVORO	TR	0	100	0	0	4.00	12/31/99	INCREASED FROM 90MM, EXTENDED TO 12/31/99
BKA	BANK OF AMERICA	TR	0	200	200	0	4.00	4/1/00	BOUGHT BY NATIONSBANK CALLED BANK AMERICA, EXTEND UNTIL 00C 7/99
CWZ	COMMERZBANK	TR	0	400	0	0	4.00	1/31/00	EXTENDED FOR 364 DAYS AS OF 2/1/99
DKF	DAI - IKI KANGYO BANK	TR	0	400	0	0	4.00	2/28/00	EXTENDED 364-DAY FOR ADDNL. ONE YEAR
DRES	DRESDENER BANK	TR	0	300	0	0	4.00	2/28/00	EXTENDED 364-DAY ON 4/1/99, Docs RECEIVED
EWB	LB RADESH-WURTTEMBERG	TR	0	60	0	0	4.00	2/28/00	EXTENDED FOR 364 DAYS, NAME CHANGED FROM SUDWEST LB
OC	OC BANK	TR	0	200	0	0	4.00	3/1/00	EXTENDED 364-DAY REVOLVER FOR ADDNL. YRS. ON 4/1/99
REC	ROYAL BANK OF CANADA	TR	0	600	600	0	4.00	3/1/00	EXTENDED FOR 364 DAYS ON 3/21/99 AS PER OUR REQUEST
REV	BANCO BILBAO VIZCAYA	TR	0	200	0	0	4.00	3/1/00	EXTENDED 364-DAY LINE, Docs REQUIRED (3/25/99)
WACH	WACHOVIA	TR	0	200	0	0	4.00	3/1/00	EXTENDED 364-DAY LINE TO 3/1/2000
NTT	NORTHERN TRUST CO	TR	0	75	0	0	4.00	3/1/00	EXTENDED 364-DAY LINE TO 3/1/2000
BTZ	BANCISLEVA BANK PLC	TR	0	200	0	0	4.00	3/26/00	RENEWED ON 3/27/99; Docs RECEIVED
BOA	BANK OF AMERICA	TR	0	600	0	0	4.00	3/25/00	NATIONSBANK LINE CONVERTED TO BOA; EXTENDED ON 3/26/99
ANB	ANABIMTO	TR	200	200	200	0	4.00	4/07/00	SPECIAL PURPOSE 12M CREDIT LINE
ANZ	ANZ BANK	TR	10	10	0	0	4.00	4/07/00	SPECIAL PURPOSE 12M CREDIT LINE
PCI	BANCA COMMERCIALE ITALIANA	TR	100	100	100	0	4.00	4/07/00	SPECIAL PURPOSE 12M CREDIT LINE

748 750

046630054 0301100

Figure 13

Generate GECC/GE Credit Lines Ranking Report

GECC / GE / Credit Lines Ranking As of 12/31/1999 (\$MM) 105/2000
5:53:03PM 1 of 3

774

Bank Name	Total*	GECC	GE	FYI Total Multiyear
1 BANK OF AMERICA	2,200	2,000	200	800
2 CHASE MANHATTAN BANK	2,000	1,000	400	350
3 CITIBANK	1,700	1,100	600	300
4 BANQUE PARIS DE PARIS	1,400	1,150	250	250
5 HSBC/MARINE MIDLAND	1,255	905	350	100
6 DEUTSCHE BANK	1,200	950	250	0
7 ABN-AMRO	1,130	680	250	0
8 BANK OF TOKYO MITSUBISHI	970	620	150	250
9 UBS AG	930	730	200	300
10 MORGAN GUARANTY IR CO	930	680	250	0
11 SAKURA BANK LTD	800	600	200	325
12 SUMITOMO BANK LTD	725	725	0	350
13 COMMERZBANK	700	700	0	250
14 BANCO BILBAO VIZCAYA	670	670	0	200
15 FUJI BANK LTD	670	570	100	200
16 ROYAL BANK OF CANADA	670	670	0	0
17 DÄTTERISCHE HYPO-UND VEREINSBANK	640	640	0	50
18 LLOYDS BANK PLC	630	630	0	500
19 DRESDNER BANK	600	600	0	213
20 BANQUE PARIBAS	540	540	0	85
21 FLEXI BANK, N.A.	530	430	100	300
22 WESBAC	530	480	50	250
23 DUTCHINGEN BANK	520	520	100	100

Figure 14

Generate GECS Credit Lines Report

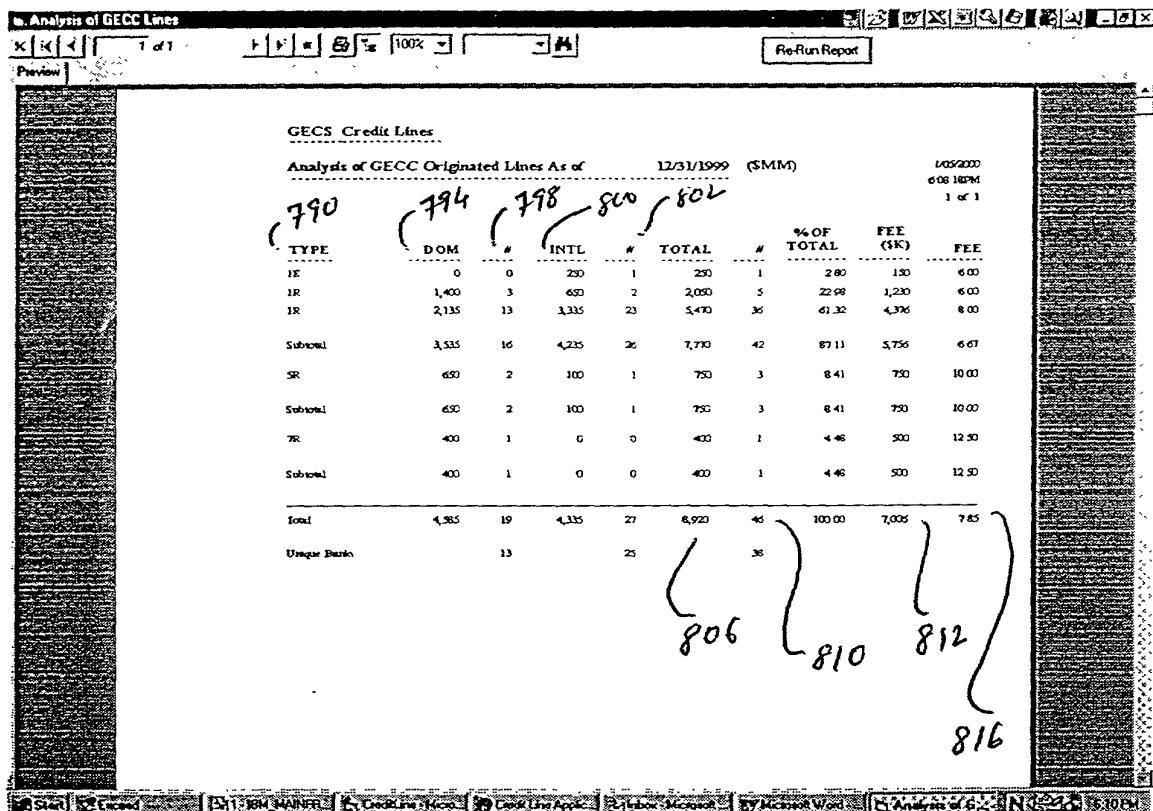


Figure 15

Generate GECC Ratings Report

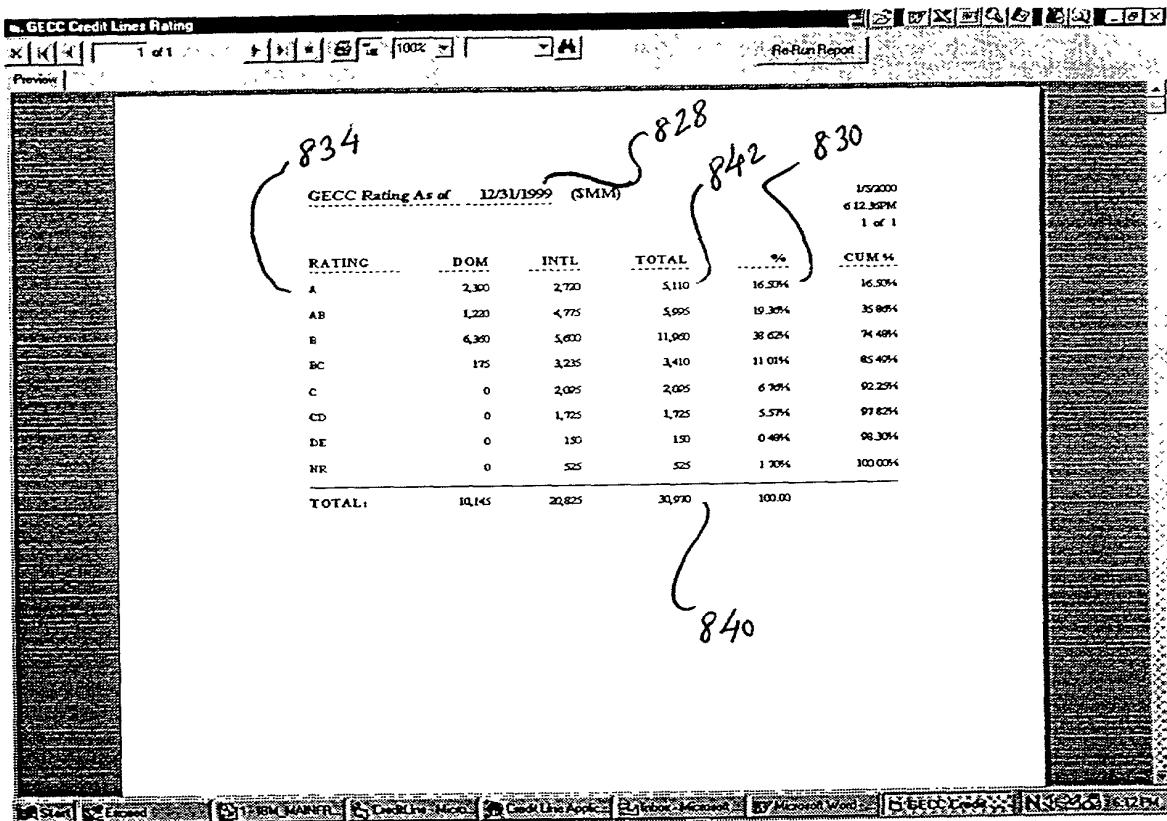


Figure 16

Generate Credit Line Accrual Report by Bank Name

850 854 856 860 852 864 868

CONFIDENTIAL
Run Date: 10/5/00 14:53PM

Credit Line Accrual Report
10/01/99 - 12/31/99

Bank Name	Pay Type	CF Code	Accrual	Credit Line	Fee	Days	Calculation Method	Effective Date	Termination Date
ABN-AMRO	W	824	85,767.12	400,000,000.00	6.00	90	Actual / Actual	12/29/99	12/29/99
ABN-AMRO	W	826	1,972.40	400,000,000.00	6.00	2	Actual / Actual	12/29/99	12/29/99
ABN-AMRO	W	826	37,435.62	200,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
ANZ BANK	A	895	1,296.99	10,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
ANZ BANK	A	895	6,301.37	25,000,000.00	10.00	92	Actual / Actual	12/12/97	12/12/02
ARAB BANK LTD	W	827	25,205.46	100,000,000.00	6.00	92	Actual / Actual	6/06/99	6/06/00
ARAB BANK LTD	W	825	25,205.46	100,000,000.00	6.00	92	Actual / Actual	6/01/97	1/1/02
BANCA COMMERCIALE ITALIANA	W	848	30,246.58	200,000,000.00	6.00	92	Actual / Actual	6/01/99	6/01/00
BANCA COMMERCIALE ITALIANA	W	848	14,043.84	120,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
BANCA COMMERCIALE ITALIANA	W	848	31,404.85	100,000,000.00	12.00	92	Actual / Actual	6/01/99	6/01/00
BANCA CATT	A	824	12,922.74	50,000,000.00	10.00	92	Actual / Actual	6/03/99	6/20/03
BANCA DI ROMA	A	824	4,010.94	50,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
BANCA DI ROMA	A	824	1,269.86	100,000,000.00	10.00	6	Actual / Actual	12/27/99	12/27/00
BANCA DI ROMA	A	824	23,826.62	100,000,000.00	10.00	87	Actual / Actual	6/01/99	12/26/99
BANCA NAZIONE DEL LAVORO	A	824	11,127.29	100,000,000.00	6.00	92	Actual / Actual	6/04/99	12/1/99
BANCA NAZIONE DEL LAVORO	A	824	18,804.11	75,000,000.00	10.00	92	Actual / Actual	6/04/99	12/1/03
BANCA POPOLARE DI MILANO	W	824	37,804.22	250,000,000.00	6.00	92	Actual / Actual	7/01/99	6/20/00
BANCA POPOLARE DI MILANO	W	824	2,264.79	34,000,000.00	18.00	30	Actual / Actual	6/03/99	6/03/99
BANCA POPOLARE DI MILANO	W	826	4,246.89	25,000,000.00	10.00	92	Actual / Actual	6/03/99	12/1/04
BANCO BILBAO VIZCAYA	W	865	45,269.86	300,000,000.00	6.00	92	Actual / Actual	3/1/99	3/1/2000
BANCO BILBAO VIZCAYA	W	865	22,726.77	170,000,000.00	6.00	61	Actual / Actual	11/01/99	4/07/00
BANCO BILBAO VIZCAYA	W	865	12,602.74	90,000,000.00	16.00	92	Actual / Actual	7/01/99	7/01/04
BANCO BILBAO VIZCAYA	W	865	47,260.27	190,000,000.00	12.00	92	Actual / Actual	7/01/99	7/01/06
BANCO DI NAPOLI	A	824	11,342.47	75,000,000.00	6.00	92	Actual / Actual	6/03/99	4/07/00
BANCO DI NAPOLI	A	824	19,564.11	75,000,000.00	16.00	92	Actual / Actual	7/01/99	6/20/04
BANCO SANTANDER	W	842	162,821.93	400,000,000.00	10.00	92	Actual / Actual	6/01/99	1/22/02
BANK HAGALIM	A	813	12,802.24	90,000,000.00	16.00	92	Actual / Actual	6/1/99	8/04/02
BANK OF AMERICA	A	805	20,546.88	200,000,000.00	6.00	92	Actual / Actual	5/13/99	12/1/00

866 870 874

Figure 17

Generate Credit Line Accrual Report by Pay Type

CONFIDENTIAL
Run Date 10/05/00 6:18:15PM

882 884 880 886

10/01/99 - 12/31/99 Credit Line Accrual Report By Pay Type

Bank Name	Pay Type	CF Code	Accrual	Credit Line	Fee	Days	Calculation Method	Effective Date	Termination Date
ANZ BANK	A	095	1,376.99	10,000,000.00	4.00	41	Accrual / Accrual	11/01/99	4/07/00
ANZ BANK	A	095	6,301.37	25,000,000.00	10.00	92	Accrual / Accrual	12/12/99	12/12/02
BANCA CITT	A	135	12,602.74	50,000,000.00	10.00	92	Accrual / Accrual	6/30/99	6/30/03
BANCA DI ROMA	A	024	4,010.96	30,000,000.00	6.00	61	Accrual / Accrual	11/01/99	4/07/00
BANCA DI ROMA	A	024	1,369.96	100,000,000.00	10.00	92	Accrual / Accrual	12/27/99	12/01/04
BANCA DI ROMA	A	024	23,835.62	100,000,000.00	10.00	87	Accrual / Accrual	1/01/99	12/26/99
BANCA NAZIONE DEL LAVORO	A	004	15,123.39	100,000,000.00	6.00	92	Accrual / Accrual	1/04/99	12/31/99
BANCA NAZIONE DEL LAVORO	A	004	16,304.11	75,000,000.00	10.00	92	Accrual / Accrual	1/04/99	12/31/03
BANCO DI NAPOLI	A	036	11,342.47	75,000,000.00	4.00	92	Accrual / Accrual	6/30/99	4/07/00
BANCO DI NAPOLI	A	036	18,304.11	75,000,000.00	10.00	92	Accrual / Accrual	7/01/99	6/30/04
BANK HAPALAK	A	013	12,602.74	50,000,000.00	10.00	92	Accrual / Accrual	5/1/99	9/01/02
BANK OF AMERICA	A	005	30,246.58	200,000,000.00	4.00	92	Accrual / Accrual	1/12/99	1/11/00
BANK OF AMERICA	A	005	66,348.32	600,000,000.00	8.00	61	Accrual / Accrual	11/01/99	4/07/00
BANK OF AMERICA	A	005	62,898.99	250,000,000.00	10.00	92	Accrual / 360	1/22/99	1/22/04
BANK OF AMERICA	A	043	37,896.22	150,000,000.00	10.00	92	Accrual / Accrual	7/01/99	11/01/05
BANK OF HAWAII	A	005	23,630.14	75,000,000.00	12.50	92	Accrual / Accrual	11/01/99	11/01/05
BANK OF TAIWAN	A	153	12,602.74	50,000,000.00	10.00	92	Accrual / Accrual	12/24/99	12/23/03
BANQUE FRANCAISE CMCL EX	A	076	7,561.64	50,000,000.00	4.00	92	Accrual / Accrual	6/30/99	6/30/99
BARCLAY'S BANK PLC	A	141	30,246.58	200,000,000.00	4.00	92	Accrual / Accrual	3/27/99	3/26/00
CARIFLO BANK	A	133	22,654.53	150,000,000.00	4.00	92	Accrual / Accrual	7/00/99	7/26/00
CARIFLO BANK	A	133	12,602.74	60,000,000.00	10.00	92	Accrual / Accrual	7/00/99	7/31/04
CHRISTIANIA BANK	A	160	12,602.74	60,000,000.00	10.00	92	Accrual / Accrual	2/13/99	2/13/04
CITIBANK	A	037	60,493.15	400,000,000.00	6.00	92	Accrual / Accrual	7/05/99	7/06/00
CITIBANK	A	037	63,478.45	400,000,000.00	8.00	61	Accrual / 360	11/01/99	4/07/00
CITIBANK	A	037	74,664.87	300,000,000.00	10.50	92	Accrual / 360	7/05/99	7/05/04
COMERICA BANK - DETROIT	A	073	55,136.39	175,000,000.00	12.50	92	Accrual / Accrual	7/01/99	7/01/05
COMMERCE BANK - KC CITY	A	040	7,341.54	90,000,000.00	6.00	92	Accrual / Accrual	6/01/99	6/30/00
COMMODITY BANK - KC CITY	A	040	2,472.37	20,000,000.00	8.00	61	Accrual / Accrual	1/01/99	4/07/00

Figure 18

Generate Credit Line Payment Report

Credit Line Payment Report

1 of 3 1/4/2000

CONFIDENTIAL
PLA DATE: 10/6/00 157,254.44

892 894 896 898 890

Credit Line Payment Report

10/01/1999 - 12/01/1999
VALU DATE: 10/04/2000

1 of 3

Pay Type	Treasury Number	CF Code	Bank Name	Payment
A	015	059	FIRSTAN BANK MILWAUKEE	15,274.71
A	040	123	SUNTRUST BANKS, INC	40,363.22
A	059	040	COMMERCE BANK - KS CITY	10,225.61
A	065	039	COMERICA BANK - DETROIT	55,136.99
A	099	116	KEY BANK	16,767.12
A	116	067	FNB MARYLAND (ANED FBN)	18,304.11
A	470	013	BANK HAPOLAM	12,602.74
A	572	010	KBC BANK N V	25,700.68
A	669	063	FIRST HAWAIIAN BANK	15,783.42
A	877	141	BARCLAYS BANK PLC	30,246.56
A	964	006	BANK OF HAWAII	23,430.14
A	ANZ	095	ANZ BANK	7,636.36
A	EFCE	076	BANQUE FRANCAISE CHAL EX	7,561.64
A	ENL	004	BANCANZIALE DEL LAVORO	34,027.40
A	EOA	005	BANK OF AMERICA	160,384.73
A	EOAL	042	BANK OF AMERICA	37,805.22
A	CARLLO	133	CARILLO BANK	35,267.67
A	CCOF	012	CREDIT COMMERCIAL DE FR	47,390.42
A	CHRIST	160	CHRISTIANA BANK	12,602.74
A	CITI	037	CITIBANK	190,539.23
A	CRT	135	BANCA CRT	12,602.74
A	DANSK	146	DEN DANSKE BANK	26,305.46
A	DEG	082	DEG BANK	12,602.74
A	FNBC	055	FIRST NB OF CHICAGO	63,774.74
A	GEN	065	GENEVA BANK	34,572.61
A	HYPO	031	HYPO BANK	25,205.46
A	HSB	153	HS WHITEHORN BET CO	7,561.11
A	ING	162	ING BANK, N.Y.	60,095.89
A	JPM	080	MORGAN GUARANTY TR CO	56,305.47
A	MBI	081	MARSHALL & ISLEY BANK	7,561.64
A	MBKT	081	MANUFACTURERS & TRADERS	10,000.00

Microsoft Word - FUNCSPCDOC

Figure 19

Generate Gateway ACH Report

Gateway ACH Report

CONFIDENTIAL

Run Date 1/06/2000 9:59:40AM Value Date 1/04/2000 1 of 3

Funds Transfer Type	Transfer Model ID	Amount	Value Date
ACHP	CF000004	15,123.20	01/04/2000
ACHP	CF000004	18,004.11	01/04/2000
ACHP	CF000005	30,246.59	01/04/2000
ACHP	CF000005	63,868.80	01/04/2000
ACHP	CF000005	66,849.32	01/04/2000
ACHP	CF000009	23,630.14	01/04/2000
ACHP	CF000010	4,010.00	01/04/2000
ACHP	CF000010	6,301.37	01/04/2000
ACHP	CF000010	7,561.64	01/04/2000
ACHP	CF000010	7,676.71	01/04/2000
ACHP	CF000012	7,643.84	01/04/2000
ACHP	CF000012	8,493.15	01/04/2000
ACHP	CF000012	15,041.10	01/04/2000
ACHP	CF000012	16,712.33	01/04/2000
ACHP	CF000013	12,602.74	01/04/2000
ACHP	CF000022	34,027.40	01/04/2000
ACHP	CF000024	1,369.86	01/04/2000
ACHP	CF000024	4,010.00	01/04/2000
ACHP	CF000024	23,835.62	01/04/2000
ACHP	CF000031	25,205.46	01/04/2000
ACHP	CF000032	6,684.03	01/04/2000
ACHP	CF000032	12,602.74	01/04/2000
ACHP	CF000032	15,123.20	01/04/2000
ACHP	CF000036	11,342.47	01/04/2000
ACHP	CF000036	18,004.11	01/04/2000
ACHP	CF000037	53,470.45	01/04/2000
ACHP	CF000037	60,493.15	01/04/2000
ACHP	CF000037	76,666.67	01/04/2000
ACHP	CF000038	10,849.32	01/04/2000

Figure 20

Generate Gateway Wire Report

Gateway Wire Report

CONFIDENTIAL
Run Date 1/06/2000 10:00:35AM Value Date 1/04/2000 1 of 3

Funds Transfer Type	Transfer Model ID	Amount	Value Date
FWRP	CFW00800	12,002.74	1/04/2000
FWRP	CFW00801	18,004.11	1/04/2000
FWRP	CFW00802	17,360.82	1/04/2000
FWRP	CFW00802	75,010.44	1/04/2000
FWRP	CFW00803	24,065.75	1/04/2000
FWRP	CFW00803	45,360.60	1/04/2000
FWRP	CFW00804	22,064.03	1/04/2000
FWRP	CFW00804	25,205.48	1/04/2000
FWRP	CFW00805	31,506.85	1/04/2000
FWRP	CFW00805	50,410.90	1/04/2000
FWRP	CFW00806	63,013.70	1/04/2000
FWRP	CFW00807	30,240.58	1/04/2000
FWRP	CFW00807	46,764.52	1/04/2000
FWRP	CFW00807	52,931.51	1/04/2000
FWRP	CFW00807	78,767.12	1/04/2000
FWRP	CFW00808	45,369.60	1/04/2000
FWRP	CFW00809	67,072.00	1/04/2000
FWRP	CFW00809	71,070.45	1/04/2000
FWRP	CFW00810	15,763.42	1/04/2000
FWRP	CFW00810	60,493.15	1/04/2000
FWRP	CFW00812	15,763.42	1/04/2000
FWRP	CFW00812	18,004.11	1/04/2000
FWRP	CFW00813	31,506.85	1/04/2000
FWRP	CFW00813	60,493.15	1/04/2000
FWRP	CFW00814	47,260.27	1/04/2000

910 912 914 920

MS Start MS End MS IBM Mainframe MS Deadline Monitor MS Credit Line Approval MS Microsoft Word MS DOS Prompt MS Gateway Wire Report N1 10:00:35AM

Figure 21

Generate Borrowing Detail Report by Due Date

CONFIDENTIAL

Run Date 1/06/2000 11:06:12 AM

1930 932 934

936 940 942

944 946

948

Borrowing Detail Report By Due Date
As of 12/31/1999

Originator	Borrower	Bank Name	Currency Type	Local Currency	Borrowing	Exchange	Borrowing	Due Date	Notes
GECC									
GECC	GECC	BANQUE MELL DE PARIS	EUR	20,000,000	2.00	40,000,000.00	1/07/00	Third	
			Sub Total Currency Type	EUR	20,000,000		40,000,000.00		
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000	100.00	1,000,000.00	1/14/00	Fourth	
			Sub Total Currency Type	JPY	100,000,000		1,000,000.00		
GECC	GECC	CITIBANK	USD	100,000,000	1.00	100,000,000.00	1/05/00	Second	
GECC	GECC	BANK OF AMERICA	USD	50,000,000	1.00	50,000,000.00	1/05/00	First	
			Sub Total Currency Type	USD	150,000,000		150,000,000.00		

Start End IBM MAINFRAM Credit Line Master Credit Line Allocation BY Microsoft Word (F1) Borrowing Detail N (22) 11:05 AM

Figure 22

Generate Borrowing Detail Report by Expiration

Borrowings Detail Report By Expiration

CONFIDENTIAL

Run Date 104/2000 11:27:27 AM

Borrowing Detail Report By Expiration
As of 12/31/1999

950

952

954

956

Originator	Borrower	Bank Name	Currency Type	Borrowing Loan Currency	Exchange Rate	Borrowing U.S. Dollar	Value Date	Due Date	Unused Credit Line (U.S.)	CL Terminator
GECC										
GECC	GECC	SAKUJA NATL DE PARIS	EUR	20,000,000.00	2.00	40,000,000.00	12/29/1999	1/6/2000	310,000,000.00	1
Sub Total By Currency Type EUR										
				20,000,000.00		40,000,000.00			310,000,000.00	
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000.00	100.00	1,000,000.00	12/30/1999	1/14/2000	74,000,000.00	1
Sub Total By Currency Type JPY										
				100,000,000.00		1,000,000.00			74,000,000.00	
GECC	GECC	CITIBANK	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/6/2000	200,000,000.00	1
GECC	GECC	BANK OF AMERICA	USD	50,000,000.00	1.00	50,000,000.00	12/29/1999	1/6/2000	150,000,000.00	1
Sub Total By Currency Type USD										
				750,000,000.00		150,000,000.00			350,000,000.00	

File Edit View Maintain Tools Options Help

104/2000 11:27:27 AM

Figure 23

Generate Borrowing Detail Report by State/Country

Figure 24

Generate Borrowing Detail Report by Unused Credit Lines

CONFIDENTIAL

Run Date 1/6/2000 11:10:35 AM

Borrowing Detail Report By Unused Credit Lines
As of 12/31/1999

964

968

Originator	Borrower	Bank Name	Currency Type	Borrowing Local Currency	Exchange Rate	Borrowing U.S Dollar	Value Date	Due Date	Unused Credit Line (US \$)	CL Termination
GECC										
GECC	GECC	SANQUE NATIONALE DE PARIS	EUR	30,000,000.00	2.00	40,000,000.00	12/29/1999	1/07/2000	310,000,000.00	1
				20,000,000.00		40,000,000.00			310,000,000.00	
<i>Sub Total By Currency Type: EUR</i>										
GECC	GECC	SAKURA BANK LTD	JPY	100,000,000.00	100.00	1,000,000.00	12/30/1999	1/14/2000	74,000,000.00	1
				100,000,000.00		1,000,000.00			74,000,000.00	
<i>Sub Total By Currency Type: JPY</i>										
GECC	GECC	BANK OF AMERICA	USD	60,000,000.00	1.00	60,000,000.00	12/29/1999	1/06/2000	160,000,000.00	1
GECC	GECC	CITIBANK	USD	100,000,000.00	1.00	100,000,000.00	12/29/1999	1/06/2000	300,000,000.00	1
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			300,000,000.00	
<i>Sub Total By Currency Type: USD</i>										
				160,000,000.00		160,000,000.00			30	

Figure 25

Generate Borrowing Detail Report by Value Date

Borrowings Detail Report By Value Date

Run Date: 1/09/2000 11:13:32 AM As of: 12/31/1999

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Borrowing Detail Report By Value Date

As of: 12/31/1999

Originator **Borrower** **Bank Name** **Currency** **Borrowing Local Currency** **Exchange Rate** **Borrowing U.S. Dollar** **Value Date** **Due Date** **Unused Credit Line (U.S.)** **CL Termination**

GECC
GECC GECC BANQUE NATIONALE DE PARIS EUR 30,000,000.00 2.00 40,000,000.00 12/29/1999 1/07/2000 310,000,000.00 ✓

Sub Total By Currency Type EUR 30,000,000.00 40,000,000.00 310,000,000.00
GECC GECC SAKURA BANK LTD JPY 100,000,000.00 100.00 1,000,000.00 12/30/1999 1/14/2000 74,000,000.00 ✓

Sub Total By Currency Type JPY 100,000,000.00 7,000,000.00 74,000,000.00
GECC GECC BANK OF AMERICA USD 50,000,000.00 1.00 50,000,000.00 12/29/1999 1/05/2000 150,000,000.00 ✓
GECC GECC CITIBANK USD 100,000,000.00 1.00 100,000,000.00 12/29/1999 1/05/2000 200,000,000.00 ✓

Sub Total By Currency Type USD 150,000,000.00 150,000,000.00 350,000,000.00

970 972

Start Stop Entered 16K MAINFRAM Decline Method 30 Click Line Approval 317 Message View TUS Borrowing Detail N13246 11:13 AM

Figure 26

Generate Capacity Available Report by Bank

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978

976 980

Capacity Available Report By Bank

Report Date 12/31/1999

982 984

986

Credit Line ID	Operator	Bank Name	State/Country	Unused CL	Termination Date
83	GE	ADM-AMRO	NET	250,000,000.00	12/26/2000
64	GECC	ADM-AMRO	NET	600,000,000.00	12/24/2000
407	GECC	ADM-AMRO	NET	260,000,000.00	4/1/2000
91	GECC	ANZ BANK	AUS	25,000,000.00	12/12/2002
416	GECC	ANZ BANK	AUS	10,000,000.00	4/7/2000
40	GECC	ARAB BANK LTD	JOR	100,000,000.00	6/4/2000
93	GECC	ASAH BANK LTD	JAP	100,000,000.00	1/31/2002
103	GE	BANCA COMMERCIALE ITALIANA	ITA	100,000,000.00	5/30/2000
104	GECC	BANCA COMMERCIALE ITALIANA	ITA	200,000,000.00	6/30/2000
105	GECC	BANCA COMMERCIALE ITALIANA	ITA	100,000,000.00	6/1/2000
425	GECC	BANCA COMMERCIALE ITALIANA	ITA	120,000,000.00	4/7/2000
190	GECC	BANCA CRT	ITA	50,000,000.00	6/30/2000
326	GECC	BANCA DI ROMA	ITA	100,000,000.00	1/31/2004
418	GECC	BANCA DI ROMA	ITA	30,000,000.00	4/7/2000
115	GECC	BANCA FAZZOLE DEL LAVORO	ITA	100,000,000.00	12/31/1999
216	GECC	BANCA FAZZOLE DEL LAVORO	ITA	75,000,000.00	12/31/2003
281	GECC	BANCA POPOLARE DI MILANO	ITA	200,000,000.00	6/30/2000
283	GECC	BANCA POPOLARE DI MILANO	ITA	35,000,000.00	10/31/2004
95	GECC	BANCO BILBAO VIZCAYA	SPA	300,000,000.00	3/12/2000
101	GECC	BANCO BILBAO VIZCAYA	SPA	90,000,000.00	7/1/2004
102	GECC	BANCO BILBAO VIZCAYA	SPA	150,000,000.00	7/1/2005
422	GECC	BANCO BILBAO VIZCAYA	SPA	170,000,000.00	4/7/2000
295	GECC	BANCO DI NAPOLI	ITA	75,000,000.00	4/28/2000
289	GECC	BANCO DI NAPOLI	ITA	75,000,000.00	4/30/2004
94	GECC	BANCO SANTANDER	SPA	400,000,000.00	1/12/2002
36	GECC	BANK HAPALIA	ISR	90,000,000.00	9/30/2002
125	GE	BANK OF AMERICA	NC	300,000,000.00	1/1/2000
436	GECC	BANK OF AMERICA	NC	100,000,000.00	6/1/2000

Figure 27

Generate Borrowings Repayment Report

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Run Date 10/06/2000 11:52:11AM

Borrowings Re-Payment Report

Re-Payment date 10/06/2000

Value Date 10/05/2000

Payment Type Treasury Number CF Code Bank Name Currency Type Principal Payment Local Currency Interest Payment Local Currency Total Payment

ACH ACH CITI 037 CITIBANK USD 100,000,000.00 110,444.44 100,119,444.44

Sub Total by Currency Type USD 100,000,000.00 110,444.44 100,119,444.44

996 998 1000 1002

990 994

Payment Type	Treasury Number	CF Code	Bank Name	Currency Type	Principal Payment	Local Currency	Interest Payment	Local Currency	Total Payment
ACH	ACH	CITI	037	CITIBANK	USD	100,000,000.00	110,444.44	100,119,444.44	
		Sub Total by Currency Type	USD		100,000,000.00	110,444.44	100,119,444.44		

Figure 28

Generate Borrowings Interest Paid Report by Currency

Figure 29

Generate Borrowings Domestic ACH Report

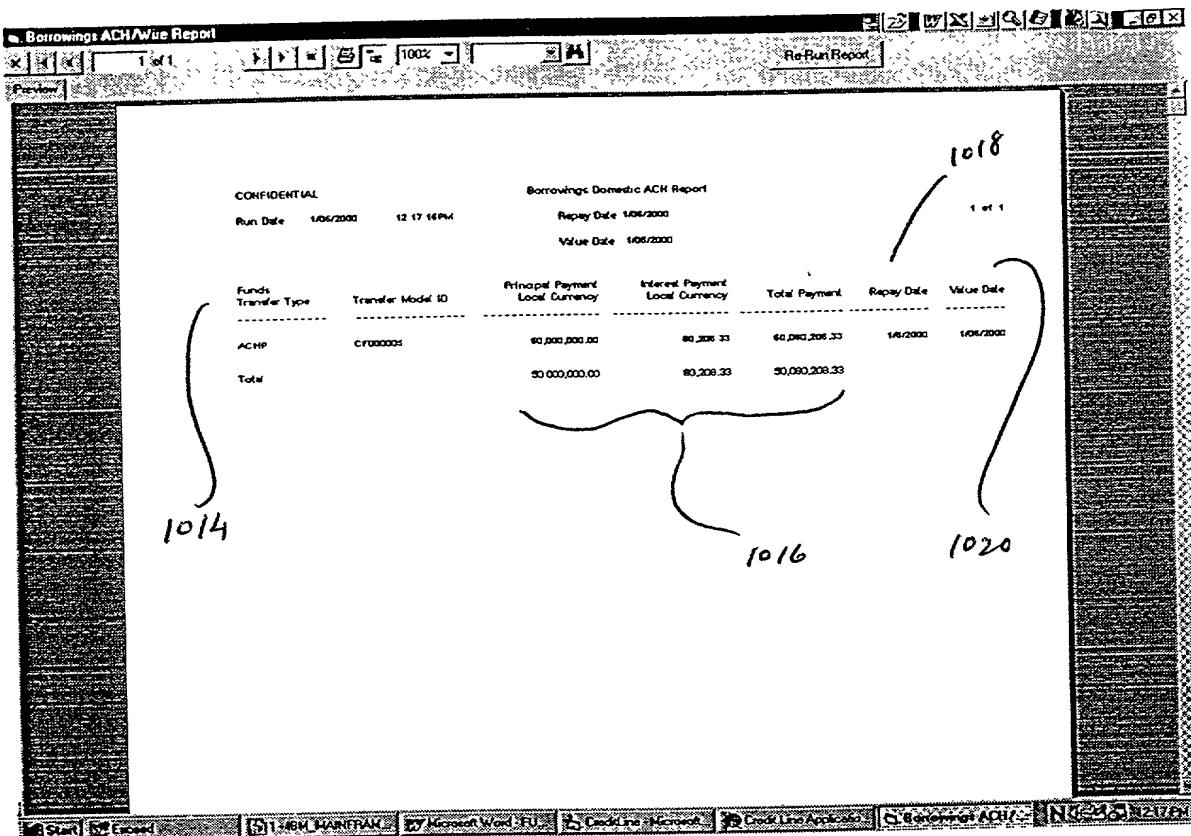


Figure 30

Generate Borrowings Domestic Wire Report

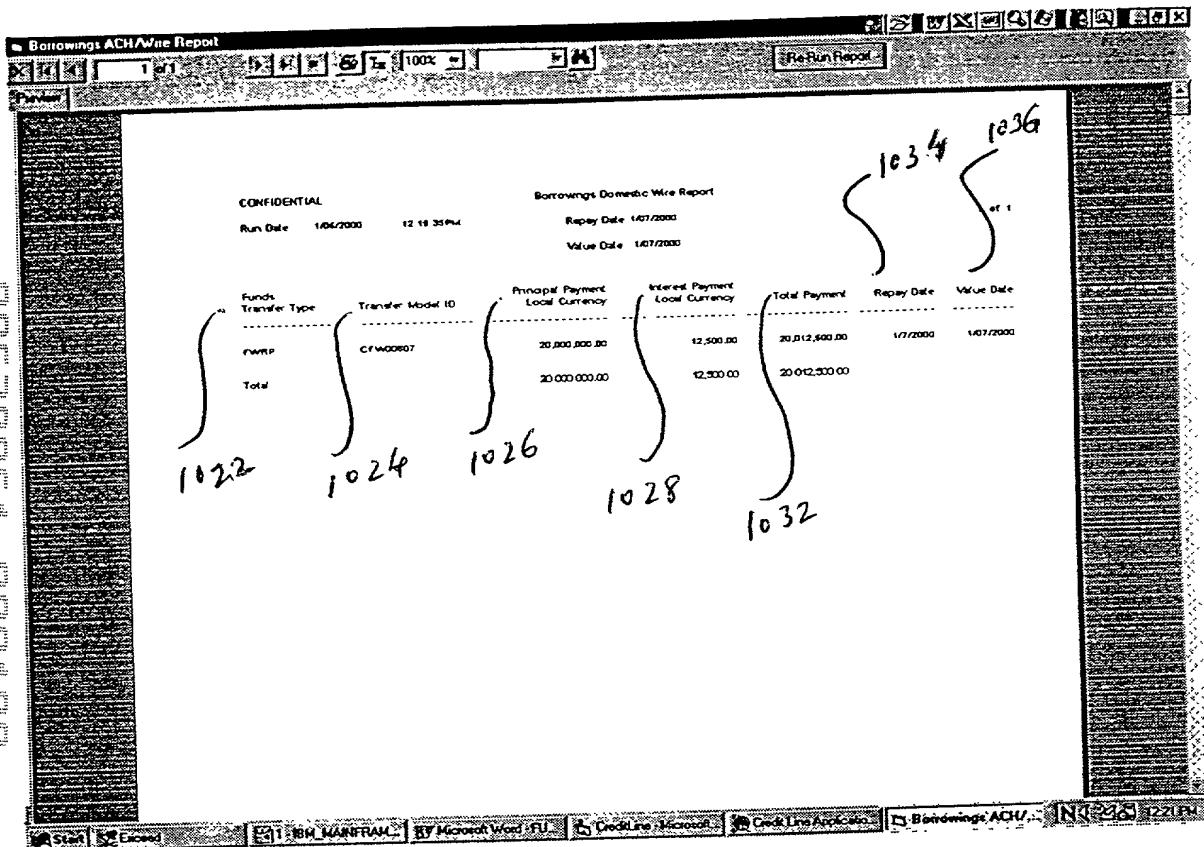


Figure 31

Generate Borrowings Interest Accruals Report in Local Currency

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Run Date 1/06/2000 12:23:14PM

Borrowing Interest Accruals Report in Local Currency

Accrual Period: 12/01/1999 to 12/31/1999

Originator Borrower BankName Currency Type Borrowing Local Currency Interest Accrual Spread Benchmark Days Basis Type Value Date

GECC GECC BANQUE NATIONALE DE PARIS EUR 20,000,000 3,750.00 25.00 2.00 3 Actual/360 12/29/1999

Sub Total By Currency Type EUR 20,000,000 3,750.00

GECC GECC SAKURA BANK LTD JPY 100,000,000 17,606.22 25.00 3.00 2 Actual/Actual 12/30/1999

Sub Total By Currency Type JPY 100,000,000 17,606.22

GECC GECC BANK OF AMERICA USD 50,000,000 21,875.00 25.00 5.00 3 Actual/360 12/29/1999

GECC GECC CITIBANK USD 100,000,000 44,791.67 37.60 5.00 3 Actual/360 12/29/1999

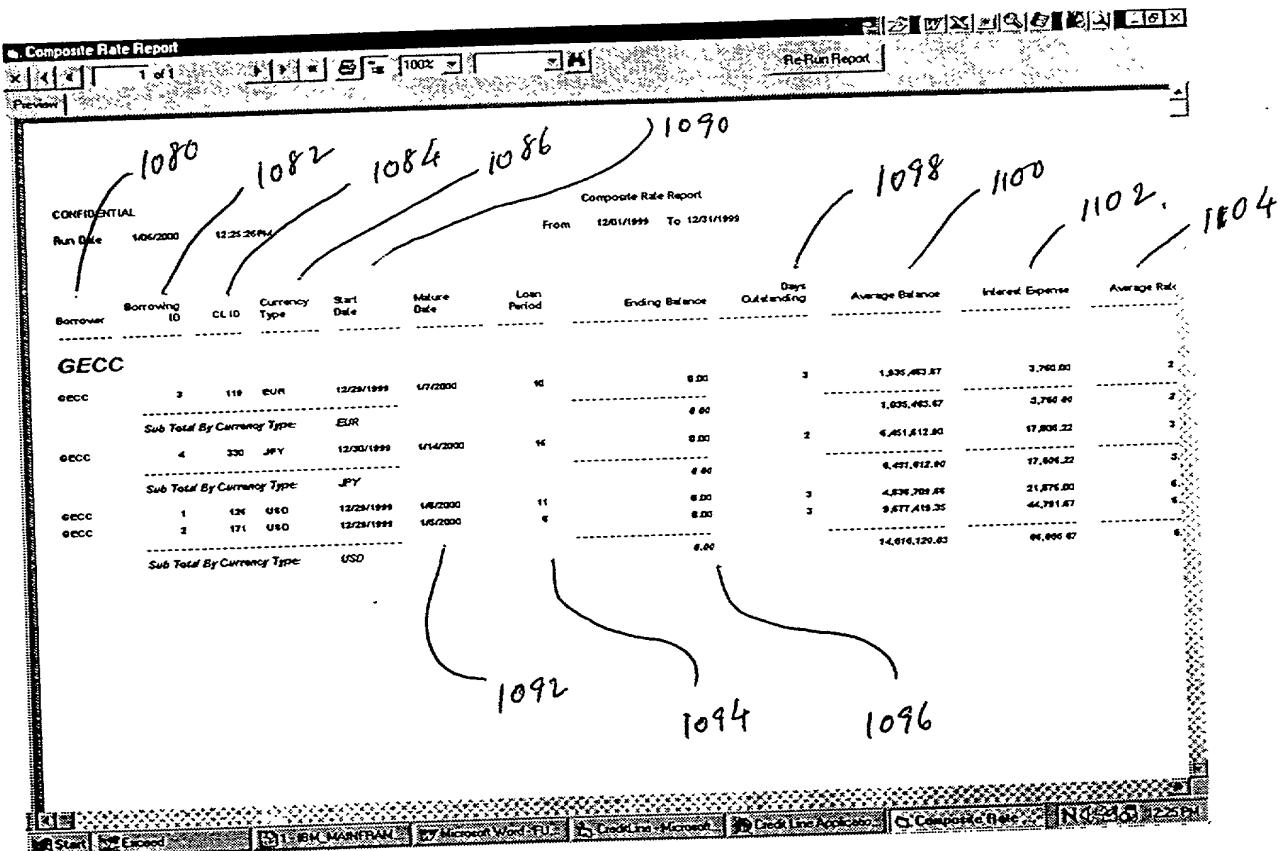
Sub Total By Currency Type USD 150,000,000 66,666.67

1044 1046 1050 1052 1056 1060 1070

1040 1042 1066 1062

Figure 32

Generate Composite Rate Report



DECLARATION AND POWER OF ATTORNEY

Attorney's Docket No.

17837-00003

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SYSTEMS AND METHODS FOR CREDIT LINE MONITORING**, the specification of which:

(check one) is attached hereto

[] was filed on _____ as Application Serial No. _____,
and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

I hereby claim priority benefits under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status (patented, pending, abandoned)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

John S. Beulick, Reg. No. 33,338; Patrick W. Rasche, Reg. No. 37,916; Michael Tersillo, Reg. No. 42,180; Donald R. Holland, Reg. No. 35,197; Tara A. Nealey, Reg. No. 42,927; Bruce T. Atkins, Reg. No. 43,476; Alan L. Cassel, Reg. No. 35,842; Elizabeth D. Odell, Reg. No. 39,532; Stephen R. Cooper, Reg. No. 42,437; Robert E. Slenker, Reg. No. 45,112; Robert B. Reeser III, Reg. No. 45,548; and Natu J. Patel, Reg. No. 39,559, all of Armstrong Teasdale, One Metropolitan Square, Suite 2600, St. Louis, MO 63102-2740

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St. Louis, MO 63102-2740

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John S. Beulick
314/621-5070

DECLARATION AND POWER OF ATTORNEY

Attorney's Docket No.

17837-00003

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

SOLE OR FIRST INVENTOR:Full Name: Glenn Goggins

Signature: _____ Date: _____

Residence: _____

Citizenship: _____

Post Office Address: _____

SECOND JOINT INVENTOR, IF ANY:Full Name: William Marcial

Signature: _____ Date: _____

Residence: _____

Citizenship: _____

Post Office Address: _____

THIRD JOINT INVENTOR, IF ANY:

Full Name: _____

Signature: _____ Date: _____

Residence: _____

Citizenship: _____

Post Office Address: _____

FOURTH JOINT INVENTOR, IF ANY:

Full Name: _____

Signature: _____ Date: _____

Residence: _____

Citizenship: _____

Post Office Address: _____